METEOROLOGICAL OFFICE.

DAILY WEATHER REPORTS.

1ST JULY TO 31ST DECEMBER, 1897.

DAILY WEATHER REPORT.

July to December 1897.

DAILY WEATHER REPORT

for 8 a.m. on Thursday 1st July. 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.86	54	ENE	2	r	29.78	−.24	58	57	+1	Z	0	0	*	r	*	66	46	0.59
	Hernösand ...	29.74	54	SW	4	r	29.67	−.36	55	53	−1	N	6	0	*	r	*	59	50	0.12
	Stockholm ...	29.80	67	SSE	2	c	29.73	−.31	64	56	−5	N	2	b	*	c	*	79	54	—
	Wisby	29.89	65	S	4	bc	29.73	−.35	63	60	−1	NW	4	b	*	bc	*	73	39	—
	Karlstad ...	29.78	73	W	2	b	29.80	−.21	66	56	0	NNE	4	b	*	b	*	*	*	—
	Bodö	29.84	50	NNE	2	c	29.84	−.11	51	48	−1	NNW	1	bc	1	c	*	54	48	—
	Christiansund ...	29.96	50	W	4	o	29.96	+.08	53	50	−6	W	2	r	3	o	*	56	50	0.32
	Skudesnaes ...	30.00	57	NW	6	o	30.00	.00	54	50	−4	NNW	6	of	2	bc, o	*	68	54	*
	Færder (Christiania Fjord)	29.80	68	SW	2	b	29.82	−.16	64	59	−1	N	3	b	2	b	*	68	64	—
	Skagen (The Scaw)	29.86	65	WNW	2	bc	29.82	−.19	64	60	−3	NW	3	b	0	bc	*	77	61	—
	Fanö	29.99	62	NW	4	b	29.93	−.02	59	58	−7	NW	2	o	*	b	*	77	57	—
	Sumburgh Head	30.05	54	N	2	c	30.03	+.05	49	48	−2	Z	0	o	2	o, c	*	54	47	—
	Stornoway ...	30.06	62	E	2	b	30.10	+.05	57	56	+1	W	2	o	2	c, b	6.2	62	51	—
	Wick	30.09	56	N	2	bc	30.08	+.03	53	51	+1	N	3	o	2	bc	*	60	49	0.01
	Nairn	30.04	56	ENE	3	c	30.07	+.05	54	53	−7	Z	0	o	1	c	*	68	51	—
	Aberdeen ...	30.06	54	E	3	bc	30.09	+.05	53	52	−7	NE	1	oam	2	bc, r	8.9	64	50	0.14
BRITISH ISLANDS.	Leith	30.05	60	ENE	2	o	30.05	+.04	58	57	+2	ENE	1	m	*	o	*	62	51	—
	Shields	30.05	55	N	1	f	30.06	+.07	53	53	−2	E	1	f	2	r, bom, f	*	60	50	0.10
	Spurn Head ...	30.01	59	NE	2	b	30.03	+.05	58	58	−6	NNE	3	o	3	b, f	*	70	55	0.01
	York	30.00	72	ENE	1	c	30.07	+.08	61	59	−3	W	1	o	*	c	5.9	76	59	—
	Loughborough ...	29.99	75	WSW	1	c	30.07	+.06	61	60	0	NW	1	ogmw	*	cm, omg	*	80	58	—
	Ardrossan ...	30.02	68	SSW	1	of	30.09	+.10	55	54	−4	W	3	om	2	of	*	70	54	—
	Malin Head ...	30.10	55	NNW	3	om	30.16	+.14	54	54	−2	NNW	4	og	2	bc, om	*	59	51	—
	Belmullet ...	30.16	57	N	2	o	30.24	+.14	56	55	−1	NNW	2	o	*	o	*	58	53	—
	Donaghadee ...	30.07	56	NNE	2	m	30.14	+.13	53	52	−4	NNW	5	m	3	m	*	64	50	—
	Liverpool (Bidston)	30.04	63	WNW	1	b	30.09	+.06	57	55	−3	W	2	o	2	b	*	67	55	—
	Holyhead ...	30.06	57	Z	0	b	30.12	+.11	54	53	−7	N	3	of	2	c, b	*	68	52	—
	Parsonstown ...	30.05	71	NW	1	bc	30.18	+.15	57	54	−5	NW	1	o	*	bc	8.0	72	55	—
	Valencia ...	30.10	61	NNW	2	bom	30.20	+.15	60	57	−1	N	3	o	3	cmp, bc	2.3	65	55	0.03
	Roche's Point ..	30.07	67	SSW	2	b	30.14	+.09	60	56	0	NNW	4	c	3	b	*	69	57	—
	Pembroke (St. Ann's Hd.)	30.01	66	NE	4	b	30.09	+.07	66	64	+3	NE	4	b	2	b	11.0	69	56	—
	Scilly	30.02	62	N	3	bc	30.07	+.11	60	57	−2	NNW	4	bc	2	bc	12.4	66	57	—
	Prawle Point ...	30.01	66	ENE	2	c	30.03	+.03	69	65	+6	NE	3	b	1	c	*	69	57	—
	Jersey (St. Aubin's)	29.99	65	ENE	4	bc	30.00	−.01	65	60	+3	NNW	3	bc	3	op, bc	*	66	59	0.04
	Hurst Castle ...	30.02	63	WSW	1	c	30.02	.00	70	66	+5	Z	0	bm	0	c	*	71	57	—
	Dungeness ...	30.00	65	ENE	3	b	29.99	−.03	65	59	−4	ENE	3	c	2	b, z	*	73	58	—
	North Foreland	30.01	65	SE	2	b	30.02	−.02	64	61	−3	N	2	c	1	b	*	70	57	—
	London (Brixton) ...	29.99	69	SE	2	og	30.02	−.02	67	62	−3	S	1	b	*	b, ogth, m	9.4	78	55	0.02
	Oxford	30.00	69	E	1	c	30.04	+.01	61	60	−3	NNW	1	o	*	c	*	78	57	—
	Cambridge ...	30.00	81	W	1	b	30.05	+.02	59	58	−6	N	1	om	*	b	15.3	82	55	—
	Yarmouth ...	30.00	70	SSE	3	b	30.01	+.02	64	59	−3	NE	1	b	2	b	*	70	58	—
GERMANY & HOLLAND.	Cuxhaven ...	29.97	70	W	1	c	29.95	+.03	66	63	−3	N	1	c	*	c	*	73	63	—
	Berlin	29.95	79	NW	3	bc	29.90	−.10	72	67	−1	NW	3	o	*	bc	*	90	66	—
	Wiesbaden ...	*	*	*	*	*	30.04	.00	66	64	−4	SW	2	r	*	*	*	82	66	0.08
	Munich... ..	30.06	74	E	2	b	30.03	−.09	77	69	+6	SE	5	b	*	b	*	82	61	—
	The Helder ...	30.01	68	W	1	b	29.99	.00	61	61	−2	NNE	1	o	1	b	*	72	59	—
BELGIUM.	Brussels ...	*	*	*	*	*	29.95	−.09	62	62	−1	NE	3	f	*	b	*	76	62	—
	Cape Gris Nez...	29.99	65	E	3	b	29.96	−.03	60	58	−5	E	3	c	2	b	*	70	59	—
	Paris	29.96	73	E	2	b	29.93	−.12	67	66	+3	NW	1	r	*	b	*	77	64	—
	Brest	29.93	61	NE	1	c	30.01	+.04	58	57	0	NE	2	bc	2	c	*	68	54	0.39
	Lorient... ...	29.96	62	SW	2	c	30.00	+.03	58	58	−4	N	3	m	2	c	*	68	55	0.24
FRANCE &	Rochefort ...	29.99	70	W	3	bc	29.99	−.01	64	63	+3	SE	3	bc	*	bc	*	73	61	—
	Belfort	29.87	85	W	1	bc	29.96	−.10	70	63	+2	SW	3	bc	*	bc	*	87	63	—
	Lyons	29.89	81	SW	1	o	29.97	−.07	?	?	?	NNE	1	o	*	o, z	*	90	64	—
	Nice	29.99	85	SE	1	b	29.94	−.11	77	63	−1	Z	0	c	1	b	*	90	70	—
	Perpignan ...	29.91	77	E	1	o	29.88	−.08	68	62	−2	NW	4	o	*	o	*	81	66	—
	Biarritz ...	29.99	69	NW	4	c	29.99	+.01	61	59	−5	SSW	4	o	2	c, tbr	*	75	59	0.20
PENINSULA.	Corunna ...																*			
	Lisbon	30.10	64	NNW	5	b	30.07	−.02	66	60	0	N	6	bc	*	b	*	75	63	—
	Azores (P. Delgada)	30.37	64	ENE	4	c	30.33	−.02	68	65	+3	ENE	1	c	2	c	*	72	63	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

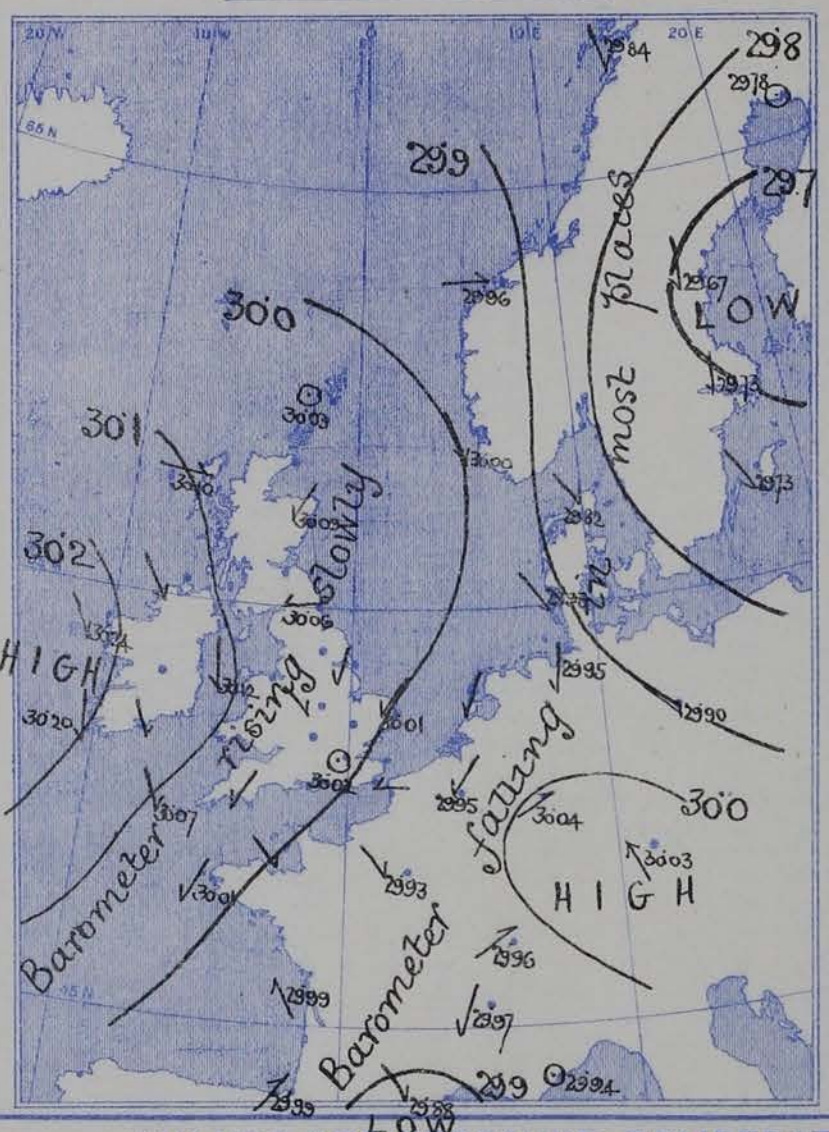
Bright Sunshine yesterday Southport 8.5 *hrs;*

WEATHER CHARTS

FOR Thursday, 1st July, 1897.

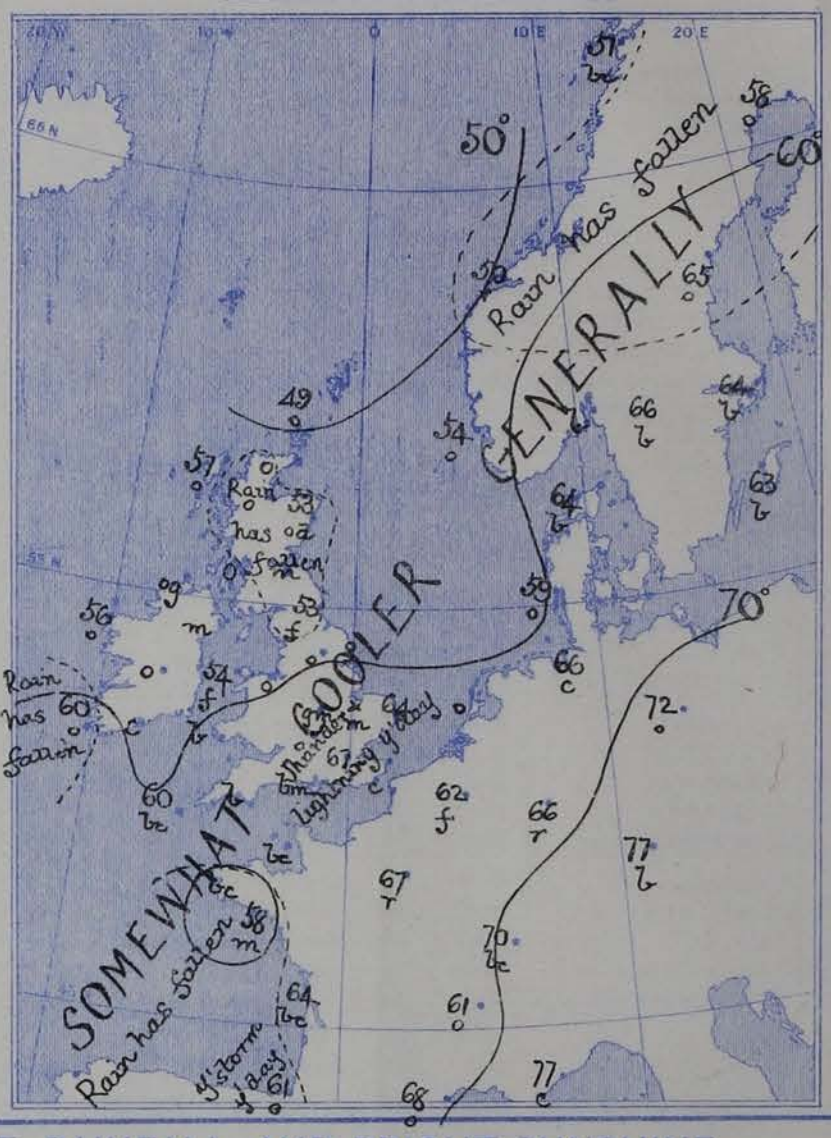
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 56	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and upwards in an anticyclone lying off the west of Ireland.
Lowest 29.7 ins. and less in a depression over the southern part of the Bay of Biscay.
Gradients slight. Barometer rising a little in most parts of our Islands, but falling at the Continental stations.

TEMPERATURE

Highest 77° at Munich and Nice, 72° at Berlin, 70° at Hurst Castle and Belfort, 69° at Prawle Point and 68° at Perpignan.
Lowest 49° at Eyemouth Hd., 50° at Christiansund, 51° at Bodö, and 53° at Wick, Aberdeen, Shields & Donna.
During yesterday the thermometer rose to 75° and upwards over the inland parts of England generally, to 80° at Loughborough, and to 82° at Cambridge.

WIND

Moderate from the N.wd. or NW.wd. on our western coasts, but light from the NE.wd. in the eastern parts of Great Britain.
N.ly or NW.ly in Scandinavia, Denmark and N. Germany, and strong in force at Hernösand & Skudenaes.
Variable over France and South Germany.

WEATHER

Fine in the south of England and also in the south of Sweden.
Cloudy or dull in most other parts of our area, with fog or mist on our own N.E. and N.W. coasts, as well as at Skudenaes and Brussels. Rain was falling at Paris and Wiesbaden, and also at Christiansund.
A little rain fell yesterday in a few isolated parts of the United Kingdom, and larger quantities in the W. of France. Thunder & lightning occurred in London, lightning at Dungeness and Lyons & a thunderstorm at Biarritz.

SEA

Slight or smooth on all coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone which is spreading over our western coasts appears to be accompanied by dull, cool, misty weather. An increase of cloud seems probable over our southern districts.

FORECASTS

For the 24 hours ending at NOON on 2ND JULY. 1897.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E.	Light breezes, chiefly N.ly; cloudy, slight rain locally.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	N.ly and NW.ly winds, light; fine and warm at first, cloudy later and cooler, possibly some rain.
6 SCOTLAND WEST 7 ENGLAND N.W.	W.ly to N.ly winds, light, dull, misty, rain locally.
8 ENGLAND S.W.	Same as Nos. 3 to 5.
9 IRELAND NORTH 10 IRELAND SOUTH	N.ly and NW.ly winds, moderate, dull, rain locally.
WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·00	68	61	NW	6	bc	2
Sumburgh Head	30·05	52	51	2	0	o	2
Stornoway	30·08	59	58	NNE	2	c	2
Aberdeen	30·07	61	59	ENE	3	bc	2
Shields	30·03	59	59	N	1	bcm	2
Ardrossan	30·00	69	69	2	0	of	0
Malin Head ...	30·07	59	58	N	3	bc	2
Belmullet	30·13	59	59	N	3	o	*
Holyhead	30·05	63	61	NW	2	c	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·07	62	60	NNW	4	cmp	4
Scilly	30·00	64	60	NE	3	bc	2
Jersey	30·01	66	61	NNE	3	opg	3
Hurst Castle ...	30·02	70	66	SE	1	c	1
Dungeness ...	30·02	70	62	ENE	1	b	1
North Foreland	30·05	68	61	E	2	b	1
London (Westminster)	30·02	73	63	SSE	1	ogt	*
Yarmouth ...	30·00	69	63	SSE	2	b	2
Rochefort ...	30·00	69	66	WNW	3	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fair or fine over the greater part of our Islands and the Continent, but dull at several of our own N^rn and central stations, as well as in the N. of Scandinavia. Fog reported on our NE. and NW. coasts, and rain at Shields and Jersey, as well as in the S. of France; thunderstorm in progress at Minster. Showers experienced during day in several isolated parts of the United Kingdom. Thunder and lightning occurring in the SE. of England, and also in the S. of France.

Temperature rises in most places. Morning reading highest 88° at Aumale, 87° at La Calle and Spax, and 83° at Trieste; above 75° in many parts of S^rn Europe, above 70° in N. Germany, and just touching that point in London. Lowest (1) 41° at Archangel, and 49° at Moscow (2) 51° at Sumburgh H^d, and 52° at Bodo and Wick. Rising during day to between 75° and 80° at many of the English stations, and reaching 82° at Cambridge. Exceeding 85° in the E. and S. of France, and touching 90° at Lyons and Nice.

Wind light generally, and varying greatly in direction. Chiefly SW^ly over England, but NW^ly or N^ly in Ireland and Scotland; SE^ly in Germany and Denmark, and S^ly or SW^ly over Sweden and Finland. Cyclonic circulations of light winds appearing later over England and France.

Barometer highest 30.1 ins. and upwards in an anticyclone over E^rn Germany and the NW^rn parts of Russia, and also in another system off the W. of Ireland. Lowest 29.8 ins. and less in a depression over central Russia; 29.9 ins and less in a shallow system off the W. of Norway. Shallow depressions appearing later over England and France, and a more important disturbance over Denmark and the S. of Sweden.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Friday 2nd July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature. Dry Bulb.	Wet Bulb.	Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA	Haparanda ...	29.76	58	L	0	c	29.69	−.09	59	57	+ 1	E	2	0	*	c	*	70	50	—
	Hernösand ...	29.76	54	L	0	b	29.66	−.01	52	51	− 3	W	4	r	*	b	*	64	50	0.16
	Stockholm ...	29.74	60	S	2	b	29.70	−.03	61	57	− 3	L	0	0	*	b	*	72	59	—
	Wisby	29.75	61	SSE	4	b	29.67	−.06	66	60	+ 3	S	4	c	*	b	*	70	57	—
	Karlstad ...	29.73	68	NE	2	bc	29.73	−.07	61	57	− 5	N	4	0	*	bc	*	*	*	—
	Bodö	29.84	52	L	0	0	29.72	−.12	48	46	− 3	NW	4	r	2	0	*	55	48	—
	Christiansund ...	29.94	50	W	2	f	29.85	−.11	50	49	0	WNW	4	r	3	f	*	54	?50	0.12
	Skudesnaes ...	29.96	54	NNW	6	0	29.99	−.01	54	50	0	N	4	c	2	0	*	57	46	*
	Færder (Christiania Fjord)	29.74	66	WSW	2	0	29.78	−.04	62	56	− 2	N	4	b	2	0	*	72	61	—
	Skagen (The Scaw)	29.79	61	WSW	2	b	29.78	−.04	63	59	− 1	NNW	3	b	0	b	*	73	54	—
	Fanö	29.94	56	NW	6	c	29.93	.00	56	52	− 3	NW	6	0	*	c	*	64	55	—
BRITISH ISLANDS	Sumburgh Head	30.01	53	WNW	2	0	29.94	−.09	53	50	+ 4	W	3	0	3	0	*	54	48	—
	Stornoway ...	30.14	57	NNW	3	0	29.97	−.13	54	54	− 3	WSW	5	0	5	c,0	3.7	60	41	—
	Wick	30.11	55	N	3	0	30.07	−.06	55	53	+ 2	S	1	0	1	0	*	60	50	—
	Nairn	30.00	64	NNE	1	b	30.00	−.07	58	55	+ 4	W	1	b	1	b	*	65	44	—
	Aberdeen ...	30.10	59	NNE	2	bc	30.03	−.06	58	54	+ 5	S	3	bc	1	c,bc	2.3	62	52	0.01
	Leith	30.11	58	ENE	3	0	30.08	+.03	61	56	+ 3	WSW	1	c	*	0	*	61	53	—
	Shields	30.11	53	NNE	1	0	30.14	+.08	56	52	+ 3	SSW	3	c	2	f2,0	*	56	52	—
	Spurn Head ...	30.05	57	ENE	2	c	30.14	+.11	60	57	+ 2	NNE	2	cm	2	cm	*	64	54	—
	York	30.04	69	E	1	0	30.17	+.10	59	54	− 2	ESE	1	c	*	0	4.2	74	53	—
	Loughborough ...	30.06	65	WNW	1	0	30.17	+.10	58	56	− 3	N	1	cm	*	cm,omg	*	74	56	—
	Ardrossan ...	30.08	60	WNW	5	b	30.10	+.01	58	56	+ 3	WNW	2	b	1	b	*	61	50	—
	Malin Head ...	30.19	54	NNW	3	0	30.18	−.06	55	54	+ 1	S	3	0	1	c,0	*	57	50	—
	Belmullet ...	30.25	58	N	1	0	30.19	−.05	58	57	+ 2	WSW	2	0	*	bc,0	*	60	53	—
	Donaghadee ...	30.16	60	NNW	5	b	30.16	+.02	57	52	+ 4	W	3	c	1	b	*	62	45	—
	Liverpool (Bidston)	30.11	56	W	3	b	30.17	+.08	57	54	0	W	2	bc	2	b	*	60	53	—
	Holyhead ...	30.15	56	W	3	bc	30.20	+.08	58	55	+ 4	SW	1	c	1	ogm,bc	*	59	50	—
	Parsonstown ...	30.19	61	NW	1	0	30.20	+.02	57	54	0	L	0	c	*	0	0.5	64	51	—
	Valencia ...	30.23	61	NNW	4	bc	30.25	+.05	57	56	− 3	L	0	0	1	bm,bc	7.6	64	53	—
	Roche's Point ...	30.19	65	NNW	3	bc	30.24	+.10	57	52	− 3	NNW	3	b	3	bc	*	67	54	—
	Pembroke (St. Ann's Hd.)	30.15	58	NE	4	b	30.17	+.08	61	58	− 5	NE	4	b	2	b	11.5	66	58	—
	Scilly	30.13	62	N	4	b	30.17	+.10	62	59	+ 2	NNW	4	c	1	b	11.9	66	57	—
	Prawle Point ...	30.05	71	N	2	bc	30.14	+.11	68	64	− 1	N	2	bc	1	bc	*	78	57	—
	Jersey (St. Aubin's)	30.03	69	NNW	3	b	30.11	+.11	67	62	+ 2	ENE	1	bm	1	c,b,g	*	73	59	—
	Hurst Castle ...	30.10	76	NNE	1	bm	30.13	+.11	65	63	− 5	NE	2	om	2	bm	*	78	62	—
	Dungeness ...	29.98	65	ENE	3	b	30.11	+.12	58	57	− 7	NE	3	od	2	c,b,f	*	70	57	—
	North Foreland	30.04	58	N	2	f	30.14	+.12	58	57	− 6	NE	3	0	3	bc,f	*	66	55	—
	London (Brixton) ...	30.02	72	NNE	2	b	30.14	+.12	59	57	− 8	NE	2	og	*	bc,b,mw	11.1	78	59	—
	Oxford	30.04	66	N	1	c	30.15	+.11	59	57	− 2	NE	2	0	*	c,og	*	74	57	—
	Cambridge ...	30.04	68	N	1	bm	30.16	+.11	59	57	0	N	1	og	*	bm	7.9	71	55	—
	Yarmouth ...	30.03	62	NNE	2	b	30.12	+.11	57	55	− 7	NNE	3	cv	3	b	*	65	54	0.01
GERMANY & HOLLAND	Cuxhaven ...	29.92	63	NW	3	0	30.00	+.05	59	57	− 7	NW	4	0	*	0	*	66	57	—
	Berlin	29.69	71	WNW	2	bc	29.93	+.03	66	59	− 6	WNW	4	bc	*	bc	*	88	64	—
	Wiesbaden ...	*	*	*	*	*	30.02	−.02	71	68	+ 5	N	1	c	*	*	*	82	64	0.04
	Munich... ...	30.03	63	NE	3	c	30.09	+.06	70	66	− 7	NNE	3	b	*	c	*	86	57	0.79
	The Helder ...	29.97	62	N	2	0	30.09	+.10	59	56	− 2	N	2	0	1	0	*	66	59	—
BELGIUM	Brussels ...	*	*	*	*	*	30.08	+.13	62	61	0	NE	4	r	*	c	*	75	60	
	Cape Gris Nez ...	29.97	57	NE	3	f	30.08	+.12	57	57	− 3	ENE	4	f	4	f	*	66	54	—
	Paris	29.94	71	W	1	b	30.04	+.11	65	64	− 2	N	2	m	*	b	*	75	63	0.75
	Brest	30.04	63	NNW	2	0	30.13	+.12	58	57	0	N	2	c	1	0	*	75	52	—
	Lorient... ...	30.01	66	N	4	f	30.09	+.09	62	61	+ 4	N	4	m	3	f	*	72	58	0.04
FRANCE	Rochefort ...	29.99	67	NW	4	bc	30.03	+.04	66	66	+ 2	NW	2	c	*	bc	*	73	64	—
	Belfort	29.82	78	L	0	0	29.97	+.01	64	63	− 6	W	1	m	*	0	*	85	58	0.08
	Lyons	29.90	68	NW	4	c	30.00	+.03	64	61	?	NW	2	0	*	c,l	*	81	60	—
	Nice	29.87	79	WSW	4	c	29.88	−.06	81	63	+ 4	E	1	c	2	c	*	93	68	—
	Perpignan ...	29.91	70	NW	4	0	29.96	+.08	69	60	+ 1	NW	2	0	*	0	*	83	63	—
	Biarritz ...	29.99	69	NW	3	c	30.02	+.03	62	61	+ 1	SSW	3	0	2	c	*	72	?59	—
PENINSULA	Corunna ...																*			
	Lisbon	30.08	64	NNW	5	b	30.10	+.03	69	60	+ 3	NNE	4	b	*	b	*	75	61	—
	Azores (P. Delgada)	30.38	65	NE	4	bc	30.37	+.04	66	63	− 2	L	0	0	2	bc	*	68	63	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

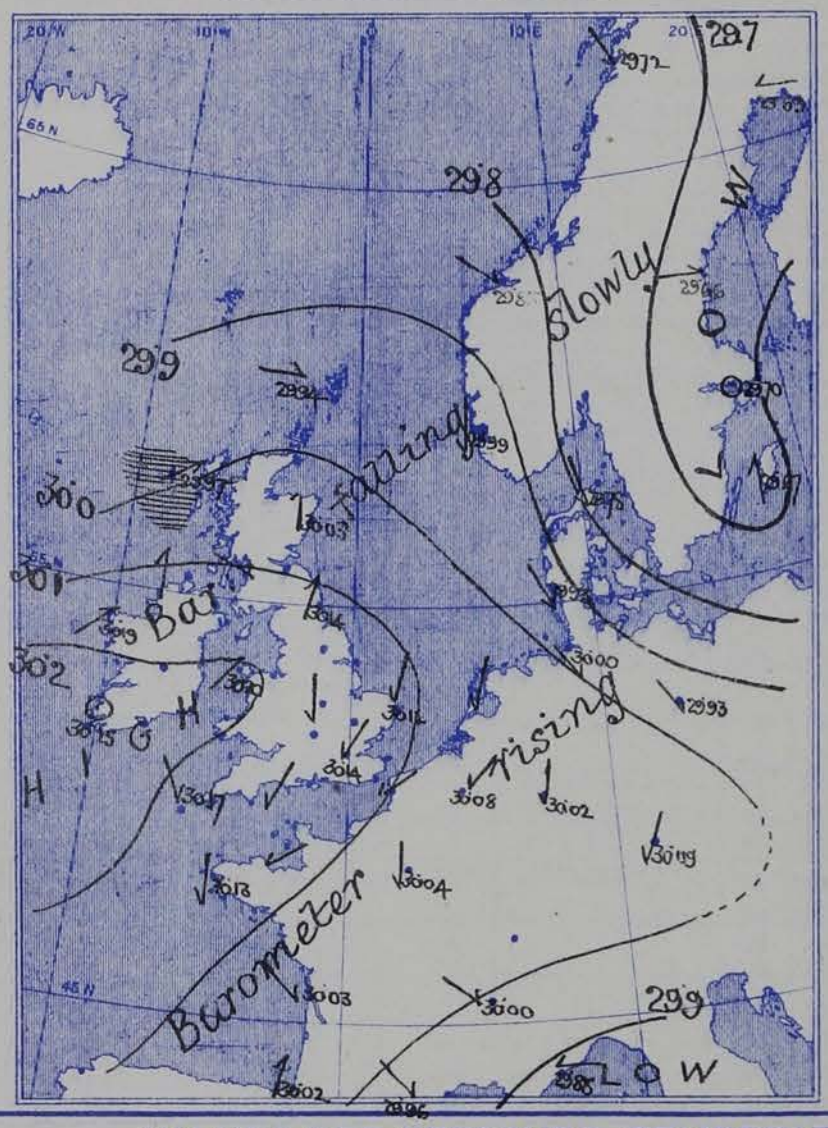
Bright Sunshine yesterday Southport 4.8 *hrs;*

WEATHER CHARTS

FOR Friday, 2nd July, 1897.

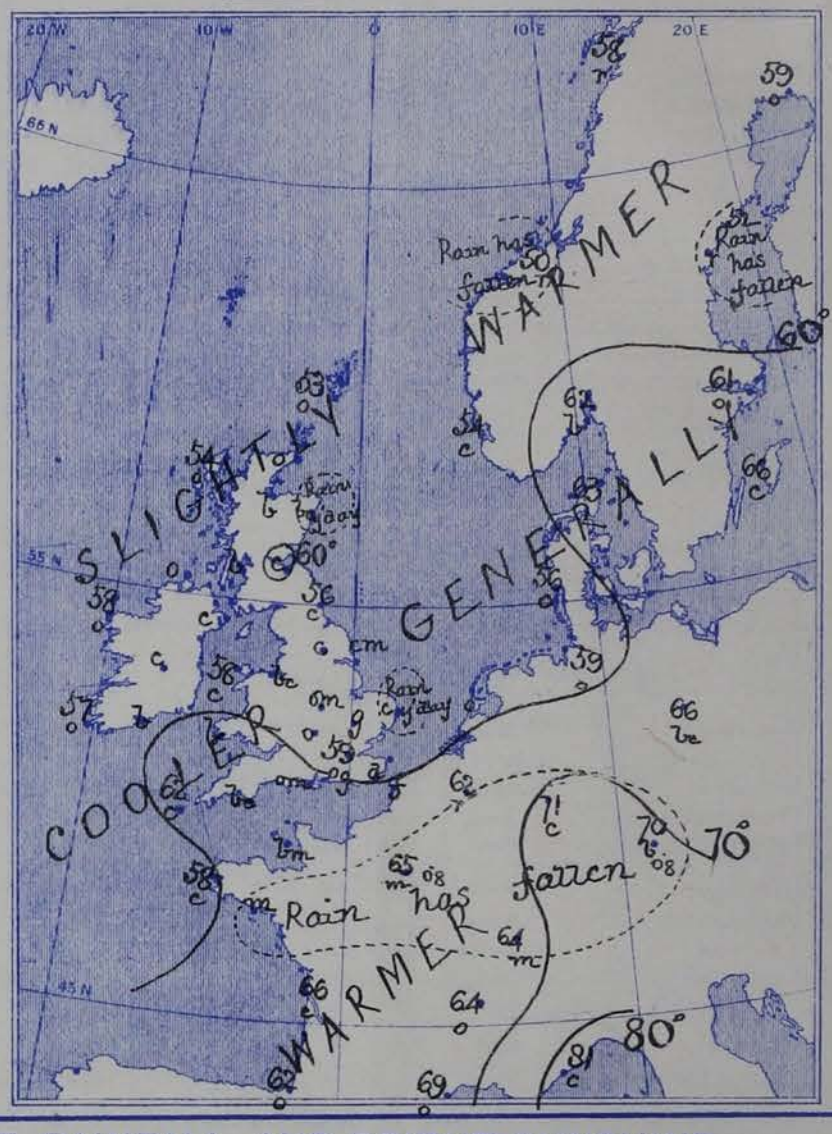
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes. Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 56	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 73	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and upwards over the south of Ireland and the St. George's Channel; 30.0 ins. and upwards in an anticyclone lying over the greater part of our Islands, France, Germany & the Netherlands.
Lowest 29.7 ins. and less over Sweden and the Gulf of Bothnia.
Gradients slight. Barometer falling in the north of our Islands and also in Scandinavia and Denmark, but rising elsewhere.

TEMPERATURE

Highest 81° at Nice, 71° at Wiesbaden, 70° at Munich, 69° at Perpignan, 68° at Prawle Pt. & 67° at Jersey.
Lowest 48° at Bodö, 50° at Christiansund, 52° at Hernösand, 53° at Dunbugh Ht., and 54° at Skudesnaes and Stornoway.
During yesterday the thermometer rose to between 70° and 75° at most of the English stations, and to 78° in London and at Prawle Point and Hurst Castle; at Shields it did not exceed 56°.

WIND

Varying between S. and W. in the northern parts of our Islands, and fresh in force at Stornoway. N. by W. or NW. by W. in nearly all other parts of western Europe; light or moderate in force generally, but strong at Faro.

WEATHER

Fair over W. Europe as a whole, but with a good deal of cloud in places. Rain was falling in the west of Norway and also at Hernösand.
Heavy rain fell yesterday at Paris and Munich, and smaller quantities at several of the other French and German stations. Thunder occurred at Hernösand, and lightning at Lyons. (The Newspapers report the occurrence of severe hailstorms in Auvergne)

SEA

Slight or smooth generally, but rather rough at Stornoway.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

A depression is apparently advancing towards our extreme N. coasts from the westward or northwestward. Freshening SW. by W. and W. by N. winds and unsettled weather are probable over the northern parts of the Kingdom generally.

FORECASTS

For the 24 hours ending at NOON on 3RD JULY 1897.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W. by N. winds, freshening considerably, unsettled, some rain.
1 SCOTLAND EAST	SW. by W. to W. by N. winds, freshening, fair at first, some rain later.
2 ENGLAND N.E.	
3 ENGLAND EAST	N. by W. to W. by N. winds, light, fair generally.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Same as Nos. 1 and 2.
7 ENGLAND N.W.	W. by N. winds, moderate, fair at first, some showers later.
8 ENGLAND S.W.	N. by W. to NW. by W. winds, light or moderate, fair generally.
9 IRELAND NORTH	Same as Nos. 1 and 2.
10 IRELAND SOUTH	Same as No. 7.
WARNINGS	None issued

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29·97	57	52	NNW	6	o	2
Sumburgh Head	30·03	53	50	WNW	1	o	2
Stornoway	30·14	60	59	N	2	c	2
Aberdeen	30·10	58	54	NW	2	c	2
Shields	30·07	54	54	NNE	1	fg	2
Ardrossan	30·08	61	60	WNW	4	b	2
Malin Head ...	30·17	57	56	NNW	3	c	2
Belmullet	30·24	59	58	NW	1	bc	*
Holyhead	30·14	56	55	N	3	ogm	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·21	62	59	NW	4	bm	4
Scilly	30·11	64	61	N	4	b	1
Jersey	30·02	69	63	N	3	c	3
Hurst Castle ...	30·01	71	70	NE	2	bm	1
Dungeness ...	29·99	69	62	ENE	3	c	2
North Foreland	30·03	65	61	NE	2	bc	1
London (Westminster)	30·02	73	64	NE	1	bc	*
Yarmouth ...	30·02	63	59	NE	2	b	2
Rochefort ...	29·98	72	67	NW	3	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over the greater part of western and central Europe, with fog or mist on our own N.E. and N.W. coasts, as well as at Skudesnaes and Brussels; rain falling at Paris and Wiesbaden, and also at Christiansund. Fine in the S. of England, as well as over Denmark, the S. of Sweden and many parts of S.rn and S.E.rn Europe. Sky clearing later in many parts of the United Kingdom, but heavy rain falling at Paris, and smaller quantities at several of the other French and German stations; thunder occurring at Hernösand, and lightning at Lyons.

Temperature fallen over W.rn and N.rn Europe generally, but risen elsewhere. Morning readings highest 93° at La Calle, 90° at Aurnale, 86° at Spa, and 82° at Leghorn and Sanguinaire; above 75° in many parts of Italy, Austria and the S. of France. Lowest (1) 42° at Archangel; (2) 49° at Sumburgh Hd., 50° at Christiansund, and 51° at Bodö. Rising during day to between 70° and 75° at many of the English stations, and to 78° in London and at Prawle Point and Hurst Castle. Exceeding 85° in Germany and the E. and S. of France, and reaching 93° at Nice.

Wind moderate from the N.wd or NW.wd in the west of our Islands, but light from the NE.wd on our E. and SE. coasts. N.ly or NW.ly over Scandinavia, Denmark and N. Germany, but SW.ly over the Baltic provinces, and S.ly or SE.ly in Finland. N.ly in the south of Russia; calm in Austria. Variable in Italy and the south of France. Light from the S.wd or SE.wd in the west of France, fresh to strong from the N.wd on the Portuguese coasts. No important change occurring during day.

Barometer highest 30·2 ins. and upwards in an anticyclone lying off the W. of Ireland. Lowest 29·7 ins. and less in a depression over the S.rn part of the Gulf of Bothnia; 29·8 ins. and less in two other disturbances, one lying off the S. of France and the other over central Spain. Anticyclone in W. subsequently spreading eastwards; barometer rising slightly in most parts of W.rn Europe.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Saturday 3rd July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.59	59	Z	0	0	29.53	−.16	54	52	−5	S	4	c	*	0	*	72	50	0.16
	Hernösand ...	29.71	55	WNW	2	b	29.72	+.06	57	48	+5	W	6	bc	*	b	*	61	50	—
	Stockholm ...	29.78	55	N	2	0	29.81	+.11	59	56	−2	Z	0	b	*	0	*	68	55	0.47
	Wisby	29.76	60	WSW	4	t	29.84	+.17	61	59	−5	N	4	b	*	t	*	66	54	0.16
	Karlstad ...	29.79	60	N	2	b	29.76	+.03	69	57	+8	S	4	bc	*	b	*	*	*	—
	Bodö	29.70	48	SW	4	0	29.60	−.12	48	47	0	NW	4	0	2	0	*	50	45	0.71
	Christiansund ...	29.86	53	WNW	2	0	29.63	−.22	53	50	+3	SE	2	0	3	0	*	54	50	0.08
	Skudesnaes ...	29.97	56	S	2	0	29.73	−.26	55	54	+1	W	8	r	4	0	*	57	50	*
	Færder (Christiania Fjord)	29.80	67	WNW	2	bc	29.77	−.01	59	53	−3	WSW	2	0	2	bc	*	68	61	—
	Skagen (The Scaw)	29.87	60	WNW	2	b	29.85	+.07	57	54	−6	W	3	r	0	b	*	68	55	—
	Fanö	30.01	56	NW	6	c	29.89	−.04	57	54	+1	WSW	4	c	*	c	*	63	54	—
BRITISH ISLANDS.	Sumburgh Head	29.80	53	S	3	r	29.39	−.55	51	50	−2	SW	3	0	4	0,r	*	56	48	0.18
	Stornoway ...	29.72	56	W	4	bc	29.46	−.51	54	53	0	W	5	0	5	0,bc	0.8	58	42	0.03
	Wick	29.81	60	SW	3	c	29.48	−.54	57	56	+2	W	5	bc	2	c	*	67	50	0.02
	Nairn	29.74	65	WSW	3	bc	29.53	−.47	55	52	−3	WSW	4	bc	2	bc	*	70	50	—
	Aberdeen ...	29.84	68	SW	2	bc	29.62	−.41	57	51	−1	SW	4	ogq	2	b,bc	10.7	71	52	—
	Leith	29.92	68	W	3	c	29.74	−.34	56	51	−5	WSW	5	0	*	c	*	72	52	—
	Shields	29.99	68	WSW	3	b	29.85	−.29	60	53	+4	WSW	3	c	2	bc,b	*	72	54	—
	Spurn Head ...	30.03	59	SSW	4	c	29.92	−.22	61	59	+1	W	5	c	3	c	*	61	58	—
	York	30.06	70	W	2	b	29.94	−.23	59	52	0	W	3	c	*	b	7.5	73	56	—
	Loughborough ...	30.09	68	W	2	b	30.00	−.17	59	55	+1	WNW	2	c	*	om,c,b,o	*	69	54	—
	Ardrossan ...	29.94	57	SSW	3	om	29.77	−.33	54	54	−4	W	7	cq	5	c,om,r	*	64	51	0.05
	Malin Head ...	29.94	56	W	5	om	29.83	−.27	54	54	−1	W	7	orq	4	c,o	*	63	50	0.02
	Belmullet ...	30.05	59	WSW	3	o	30.03	−.16	54	54	−4	W	4	o	*	om,o	*	62	51	—
	Donaghadee ...	30.01	67	WSW	4	c	29.93	−.23	58	55	+1	WSW	6	c	4	c	*	73	51	—
	Liverpool (Bidston)	30.08	63	WNW	1	c	29.99	−.18	58	51	+1	W	5	bc	4	c	*	64	55	—
	Holyhead ...	30.11	57	SSW	3	c	30.02	−.18	59	55	+1	SW	3	o	2	b,c	*	63	52	—
	Parsonstown ...	30.10	65	W	2	o	30.06	−.14	57	52	0	W	2	c	*	o,d	2.6	69	53	0.01
	Valencia ...	30.18	59	SW	3	om	30.17	−.08	58	54	+1	W	3	c	3	c,om	0.1	65	55	0.01
	Roche's Point ..	30.16	67	WNW	4	bc	30.13	−.11	60	55	+3	WNW	3	bc	3	bc	*	69	55	—
	Pembroke (St. Ann's Hd.)	30.15	60	W	2	b	30.12	−.05	57	55	−4	NW	3	og	2	b	14.2	?65	55	—
	Scilly	30.20	62	NNW	3	bc	30.16	−.01	60	57	−2	WNW	3	cp	2	bc	6.3	66	57	0.01
	Prawle Point ...	30.14	63	WSW	2	bc	30.12	−.02	61	59	−7	W	3	c	2	bc	*	71	54	—
	Jersey (St. Aubin's)	30.13	67	NNE	2	bcm	30.15	+.04	62	60	−5	WNW	4	o	3	ogm,bcm	*	68	52	—
	Hurst Castle ...	30.13	62	SW	3	om	30.07	−.06	61	59	−4	WSW	2	c	2	om	*	67	55	—
	Dungeness ...	30.12	59	ENE	3	o	30.01	−.10	60	59	+2	WSW	3	m	2	o	*	62	57	—
	North Foreland	30.13	58	E	2	o	30.01	−.13	63	60	+5	W	3	o	2	o	*	63	54	—
	London (Brixton) ...	30.12	64	N	1	ogm	30.03	−.11	62	58	+3	SW	2	c	*	ogm	0.0	65	58	—
	Oxford	30.09	63	SSE	1	b	30.02	−.13	63	60	+4	W	3	bcm	*	o,bm	*	65	55	—
	Cambridge ...	30.12	64	N	1	o	29.99	−.17	62	59	+3	SW	3	c	*	og	0.0	66	54	—
	Yarmouth ...	30.11	61	SSE	3	b	29.94	−.18	63	60	+6	W	2	bc	2	b	*	63	55	—
GERMANY & HOLLAND.	Cuxhaven ...	29.97	59	N	2	o	29.96	−.04	58	54	−1	SSW	2	bc	*	o	*	63	55	—
	Berlin	29.98	65	NW	2	b	30.02	+.09	62	55	−4	WNW	2	o	*	b	*	75	52	—
	Wiesbaden ...	*	*	*	*	*	30.01	−.01	65	62	−6	SW	2	c	*	*	*	82	61	—
	Munich... ..	30.04	73	NE	3	b	30.04	−.05	69	67	−1	E	1	c	*	b	*	81	61	—
	The Helder ...	30.09	62	N	1	b	29.95	−.14	60	57	+1	SW	3	c	2	b	*	63	50	—
BELGIUM.	Brussels ...	*	*	*	*	*	30.04	−.04	59	58	−3	SE	1	f	*	b	*	71	55	—
	Cape Gris Nez...	30.09	59	ENE	1	m	30.01	−.07	58	57	+1	SSW	3	o	3	m	*	61	54	—
	Paris	30.04	69	N	2	b	30.06	+.02	61	60	−4	NW	3	o	*	b	*	72	61	—
	Brest	30.16	61	WSW	2	r	30.25	+.12	58	57	0	NW	2	m	2	r	*	64	54	—
	Lorient... ...	30.11	69	NNW	4	m	30.20	+.11	58	57	−4	NNW	5	c	3	m	*	79	55	—
FRANCE &	Rochefort ...	30.03	78	NW	4	bc	30.10	+.07	63	63	−3	N	5	o	*	bc	*	78	61	—
	Belfort	29.89	77	E	2	c	29.93	−.04	70	67	+6	Z	0	m	*	c	*	85	58	—
	Lyons	?	?	?	?	?	29.95	−.05	69	62	+5	SSE	2	o	*		*	81	62	—
	Nice	29.92	78	E	1	c	29.91	+.03	69	60	−12	NE	2	r	4	c	*	91	68	0.08
	Perpignan ...	29.95	71	NW	4	o	30.01	+.05	72	62	+3	NW	3	o	*	o	*	85	63	—
	Biarritz ...	30.06	67	WNW	4	o	30.09	+.07	66	65	+4	WNW	6	r	5	o	*	72	62	0.16
PENINSULA.	Corunna ...																*			
	Lisbon	30.14	67	NNW	6	c	30.23	+.13	73	61	+4	NE	5	b	*	c	*	79	64	—
	Azores (P. Delgada)																*			

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 11.1 *hrs;*

WEATHER CHARTS

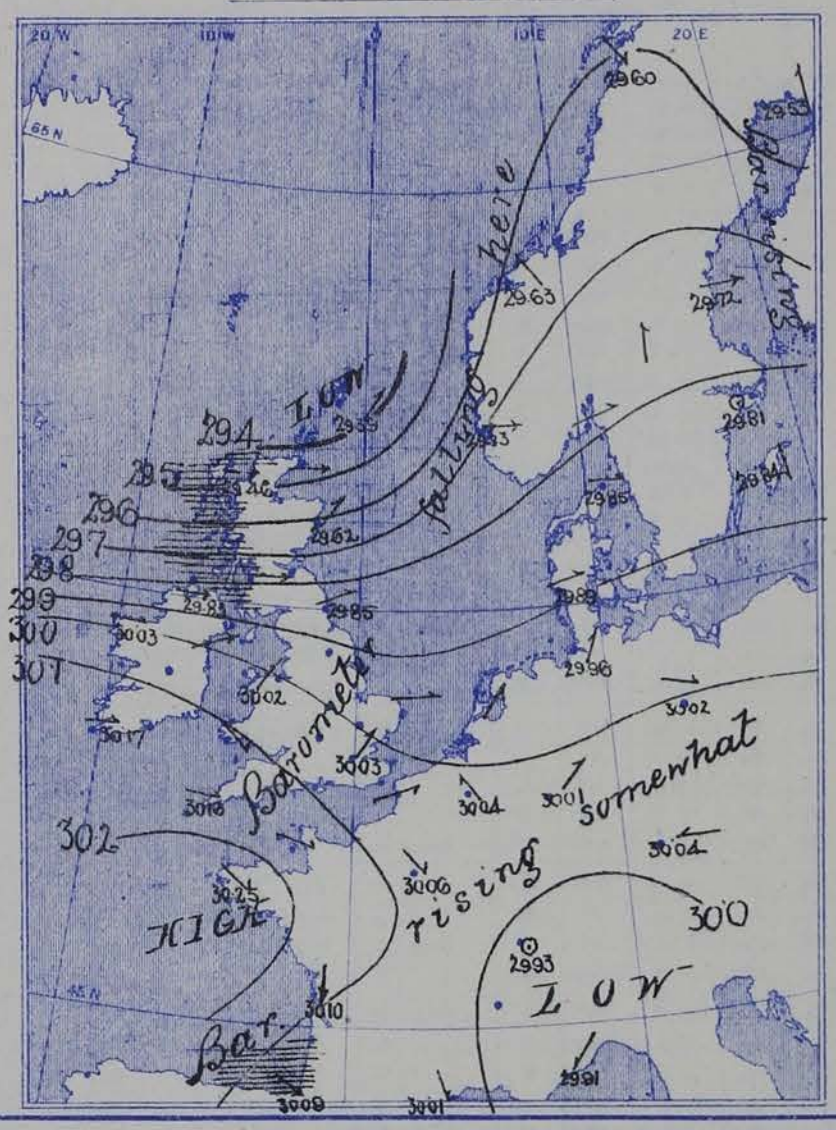
FOR SATURDAY, 3RD JULY, 1897.

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

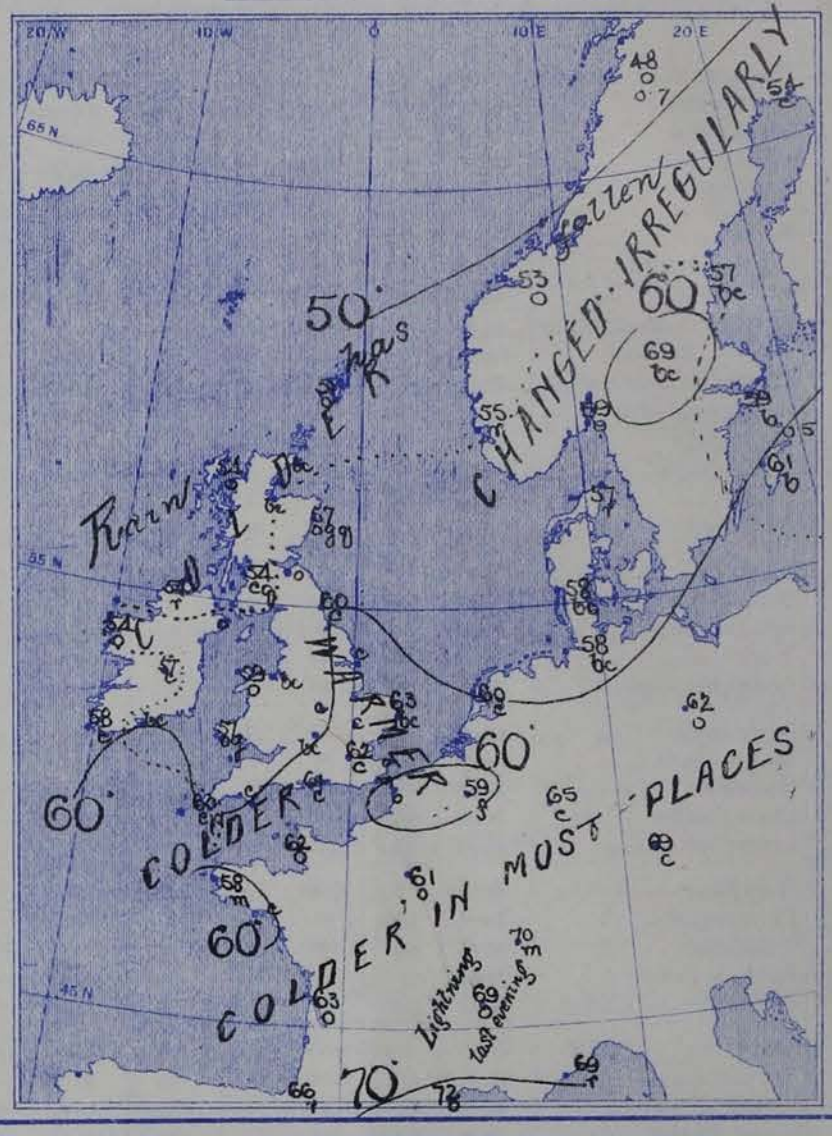
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 56	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 73	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	--	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and upwards in an anticyclone extending from the Atlantic over Portugal, and also over the extreme northwest of France.
Lowest 29.4 ins. and less in a rather deep depression lying off the north of Scotland.
Gradients rather steep over Scotland and the N.ern parts of the North Sea, but slight elsewhere.
Barometer falling in our Islands, and also on the E.ern shores of the North Sea; rising in Sweden, France and Germany.

TEMPERATURE

Highest (1) 73° at Lisbon, 72° at Perpignan, 70° at Belfort, 69° at Munich and Nice, and 66° at Biarritz; (2) 69° at Karlstad.
Lowest 48° at Bodo, 51° at Sumburgh Hd., 53° at Christiansund, and 54° at Haparanda, Stornoway, Androssan, Malin Hd. and Belmullet.
During yesterday the thermometer rose to 70° and upwards at several of our N.ern stations; in the E. and S.E. of England it did not exceed 65°.

WIND

W.ly over our Islands and the greater part of Scandinavia and Denmark; strong in force in the W. of Scotland and the N. of Ireland, and blowing a gale at Skudesnaes.
NW.ly in France, and fresh or strong in force in the west.

WEATHER

Fair over our Islands as a whole, but dull at several of our N.ern stations, as well as on the eastern shores of the North Sea, with rain at Malin Hd., Skudesnaes and the Skaw.
Fine in Sweden, but dull in France, with rain at Nice and Biarritz.
Slight rain fell yesterday at several of our own W.ern and extreme N.ern stations and larger quantities in Scandinavia and also in the S. of France. Lightning was seen at Lyons in evening.

SEA

Rather rough off the W. of Scotland and also at Biarritz, but moderate to slight elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off the N. of Scotland will probably travel away shortly in a NE.ly direction. The distribution of pressure is, however, favourable for the advance of other disturbances from the westward.

FORECASTS

For the 24 hours ending at NOON on 4TH JULY 1897.

DISTRICTS.	FORECASTS.
1 SCOTLAND NORTH	W.ly winds, strong, perhaps a gale, changeable, some rain.
1 SCOTLAND EAST	SW.ly and W.ly winds, fresh or strong, changeable, some showers.
2 ENGLAND N.E.	
3 ENGLAND EAST	W.ly winds, moderate; fair generally.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	W.ly winds, strong to moderate; squally, showery.
7 ENGLAND N.W.	Same as No. 1 and 2.
8 ENGLAND S.W.	W.ly and NW.ly winds, moderate, fair generally, but local showers.
9 IRELAND NORTH	Same as No. 6
10 IRELAND SOUTH	Same as No. 8
WARNINGS	At 10.10 am. today to districts 0 and part of 1. Hoist S. Cone.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·01	57	51	NW	4	o	2
Sumburgh Head	29·89	54	51	W	2	o	3
Stornoway	29·82	58	58	WSW	6	o	6
Aberdeen	29·90	69	60	SSW	3	b	3
Shields	30·04	71	61	SW	3	bc	2
Ardrossan	30·04	60	59	S	2	c	2
Malin Head ...	29·99	63	62	SSW	5	c	2
Belmullet	30·06	60	60	WSW	4	om	*
Holyhead	30·16	62	58	SSW	2	b	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·20	65	62	SW	2	c	3
Scilly	30·19	63	58	NNW	4	bc	1
Jersey	30·15	66	63	ENE	3	ogm	3
Hurst Castle ...	30·15	65	62	WSW	1	om	1
Dungeness ...	30·13	61	58	ENE	3	o	2
North Foreland	30·16	60	59	NE	3	o	2
London (Westminster)	30·15	63	59	NNE	1	ogm	*
Yarmouth ...	30·14	62	57	ENE	2	b	2
Rochefort ...	30·03	73	73	NW	4	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fair over Europe as a whole, but with a good deal of cloud in many of the W^rn and N^rn countries; rain falling in the W. of Norway, and also at Hernosand and Brussels. Slight rain occurring later at several of our own W^rn and extreme N^rn stations, and larger quantities in Scandinavia and the S. of France. Lightning seen at Lyons in evening.

Temperature rises in the N. of our Islands, and also over Russia and S^rn Europe generally, but falls elsewhere. Morning readings highest 93° at La Calle, 89° at Brindisi, and 86° at Trieste and Spas; above 80° at many of the Mediterranean and Adriatic stations. Lowest 48° at Bodö, 49° at Archangel, 50° at Christiansund, 52° at Hernösand, and 53° at Sumburgh Head. Rising during day to 70° or a little above it at several of our own N^rn stations, but not exceeding 65° in the southeast of England. Reaching 80° or more in many parts of France and Germany, and touching 91° at Nice.

Wind light to moderate from between S. and W. on our own northern coasts, but from the N^rd over the south of our Islands, and the neighbouring parts of the Continent. Moderate from the NW^rd over Norway, Denmark and Germany; light from the E^rd or SE^rd over the N^rn and central parts of Russia. Variable over Austria, Italy and the S. of France. Wind subsequently increasing in force in the W. of Scotland, and blowing a moderate to fresh gale in places.

Barometer highest 30·2 ins. and upwards over the S. of Ireland and the St. George's Channel; 30·1 ins. and upwards in an anticyclone extending from the Atlantic over the whole of Ireland and England and the extreme NW parts of France and Spain. Lowest 29·7 ins. and less in two depressions—one lying over the Gulf of Bothnia and the other over the W^rn and central parts of Russia; 29·9 ins. and less in a complex disturbance over the W^rn parts of the Mediterranean. New depression appearing later off the N. of Scotland and barometer falling rather briskly on our own N^rn coasts.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Sunday 4th July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer At 32° Fahr. and M. S. L.	Barometer Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.50	52	S	2	8	29.50	−.03	54	50	0	SW	2	o	*	o	*	66	52	—
	Hernösand ...	29.52	63	E	4	o	29.37	−.35	53	52	−4	S	6	f	*	o	*	64	45	0.08
	Stockholm ...	29.63	63	SSW	2	o	29.47	−.34	60	55	+1	SW	4	o	*	o	*	70	50	0.08
	Wisby	29.72	61	W	4	o	29.56	−.28	59	55	−2	SW	4	c	*	o	*	70	50	0.12
	Karlstad ...	29.53	57	S	6	r	29.40	−.36	58	53	−11	SW	4	o	*	r	*	*	*	0.08
	Bodö	29.55	48	N	4	bc	29.54	−.06	48	45	0	NNE	4	c	1	bc	*	50	45	0.24
	Christiansund ...	29.43	57	NE	2	r	29.50	−.13	51	49	−2	N	2	r	2	r	*	57	?50	0.16
	Skudesnaes ...	29.51	55	SW	6	o	29.42	−.31	55	52	0	N	0	c	3	o	*	57	50	*
	Færder (Christiania Fjord)	29.49	59	SW	8	o	29.40	−.37	56	53	−3	SW	3	b	3	o	*	59	55	0.04
	Skagen (The Scaw)	29.63	55	WSW	3	c	29.46	−.39	54	53	−3	SW	2	c	0	c	*	61	52	0.47
	Fanö	29.73	57	W	6	c	29.58	−.31	53	52	−4	W	5	r	*	c	*	61	53	0.16
BRITISH ISLANDS.	Sumburgh Head	29.26	51	W	4	r	29.59	+.20	53	51	+2	NW	3	c	4	o.r	*	54	49	0.14
	Stornoway ...	29.57	52	WNW	8	r	29.83	+.37	51	51	−3	NNW	5	o	6	o.rm	3.4	56	48	0.20
	Wick	29.49	55	W	6	c	29.75	+.27	55	53	−2	NNW	6	o	4	c	*	61	48	0.10
	Nairn	29.57	55	WSW	5	c	29.78	+.25	55	52	0	W	3	c	2	c	*	61	49	0.02
	Aberdeen ...	29.57	57	W	6	oq	29.75	+.13	56	50	−1	NW	6	cq	2	cqu	4.2	63	51	0.01
	Leith	29.72	57	W	4	o	29.83	+.09	58	53	+2	WSW	3	bc	*	o	*	62	50	—
	Shields	29.79	58	WSW	4	b	29.85	.00	58	54	−2	W	4	c	2	qp.b	*	61	49	—
	Spurn Head ...	29.87	60	W	5	bc	29.85	−.07	57	56	−4	W	5	c	4	bc	*	62	53	—
	York	29.92	59	W	3	c	29.92	−.02	56	51	−3	W	4	o	*	c	5.0	62	50	—
	Loughborough ...	29.99	64	WNW	4	bc	29.99	−.01	55	50	−4	WNW	4	ov	*	cq.bc.c	*	67	52	—
	Ardrossan ...	29.78	56	W	7	bcq	29.93	+.16	52	52	−2	W	3	ozp	2	bcq	*	59	49	0.01
	Malin Head ...	29.88	54	W	7	c	30.02	+.19	52	52	−2	NW	5	oq	3	c	*	55	50	0.07
	Belmullet ...	30.07	56	WNW	4	o	30.12	+.09	55	55	+1	WNW	2	c	*	o	*	58	49	—
	Donaghadee ...	29.96	58	WNW	6	c	30.03	+.10	53	51	−5	W	5	c	3	c	*	62	49	—
	Liverpool (Bidston)	29.97	58	W	5	o	30.01	+.02	55	51	−3	W	7	o	5	o	*	61	53	—
	Holyhead ...	30.01	59	W	4	c	30.08	+.06	54	52	−5	WNW	5	o	4	c	*	61	51	—
	Parsonstown ...	30.08	59	WNW	2	c	30.15	+.09	56	52	−1	W	1	c	*	c	5.8	63	51	—
	Valencia ...	30.19	58	WSW	3	o	30.20	+.03	56	54	−2	W	2	og	3	c.o	3.9	60	54	—
	Roche's Point ..	30.14	63	NW	4	b	30.19	+.06	59	54	−1	NW	3	c	3	b	*	66	55	—
	Pembroke (St. Ann's Hd.)	30.12	55	NW	5	bc	30.15	+.03	56	54	−1	NW	5	c	3	bc	10.5	62	55	—
	Scilly	30.19	60	WNW	4	c	30.22	+.06	59	55	−1	WNW	4	c	3	c	8.9	64	55	—
	Prawle Point ...	30.12	62	WNW	4	bc	30.18	+.06	61	57	0	NNW	3	bc	2	bc	*	67	55	—
	Jersey (St. Aubin's)	30.14	63	WNW	5	b	30.20	+.05	61	58	−1	WNW	4	cm	3	cm.b	*	65	56	—
	Hurst Castle ...	30.06	67	WNW	4	b	30.11	+.04	61	56	0	WNW	4	c	2	c.b	*	71	56	—
	Dungeness ...	29.97	65	WSW	4	c	30.03	+.02	63	56	+3	WNW	4	bc	3	bc.c	*	67	53	—
	North Foreland	29.99	65	NW	4	o	30.02	+.01	61	53	−2	NW	4	bc	3	c.o	*	73	52	—
	London (Brixton) ...	30.01	67	WNW	2	bc	30.05	+.02	59	50	−3	NW	2	o	*	c.b	1.4	72	52	—
	Oxford	30.03	59	WNW	3	b	30.06	+.04	56	51	−7	W	5	bc	*	b	*	68	49	—
	Cambridge ...	30.00	65	NW	2	b	30.01	+.02	57	51	−5	WNW	3	[illegible]	*	b	3.9	69	49	—
	Yarmouth ...	29.94	64	WNW	3	c	29.93	−.01	58	52	−5	WNW	6	bcq	3	c	*	67	51	—
GERMANY & HOLLAND.	Cuxhaven ...	29.86	61	W	3	o	29.72	−.24	57	53	−1	W	5	ov	*	o.r	*	66	54	0.08
	Berlin	29.85	69	WNW	3	bc	29.82	−.20	64	50	+2	W	3	c	*	bc	*	81	59	—
	Wiesbaden ...	*	*	*	*	*	29.95	−.06	66	60	+1	N	4	c	*	*	*	77	65	—
	Munich... ..	30.01	70	SW	2	c	30.00	−.04	63	63	−6	W	5	r	*	c	*	82	63	0.20
	The Helder ...	29.91	60	W	2	c	29.84	−.11	58	52	−2	W	7	bc	4	c	*	63	57	—
BELGIUM.	Brussels ...	*	*	*	*	*	30.00	−.04	61	55	+2	WNW	3	c	*	o	*	70	53	—
	Cape Gris Nez...	29.97	58	SW	4	o	30.01	.00	58	55	0	SW	3	b	3	o	*	64	54	—
	Paris	30.07	68	WNW	3.	bo	30.12	+.06	58	55	−3	WNW	2	o	*	bc	*	71	54	—
	Brest	30.23	61	NW	2	c	30.23	−.02	59	56	+1	NW	2	bc	1	c	*	64	54	—
	Lorient... ...	30.20	64	WNW	5	bc	30.24	+.04	59	58	+1	NW	4	b	3	bc	*	72	57	—
FRANCE &	Rochefort ...	30.17	66	NW	5	o	30.22	+.12	62	60	−1	NW	5	c	*	o	*	72	57	—
	Belfort	29.93	75	SW	3	c	30.04	+.11	60	56	−10	W	6	c	*	c	*	84	59	—
	Lyons	29.98	75	NW	2	o	30.12	+.17	61	56	−8	NW	3	o	*	o	*	80	59	0.04
	Nice	29.92	71	E	1	bc	29.91	.00	68	59	−1	E	0	b	1	bc.fbr	*	82	59	0.67
	Perpignan ...	30.01	71	NW	6	c	30.11	+.10	70	61	−2	NW	4	b	*	c.f	*	85	65	—
	Biarritz ...	30.25	66	WNW	6	o	30.25	+.16	66	63	0	NW	4	c	4	o	*	68	61	0.16
PENIN-SULA.	Corunna ...	30.46	64	NNW	4	b	30.39		62	61		NNW	2	f	2	b	*	66	57	—
	Lisbon	30.17	73	NNW	5	b	30.14	−.09	79	63	+6	NNE	4	b	*	b	*	86	70	—
	Azores (P. Delgada)																*			

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 3.9 *hrs;*

WEATHER CHARTS

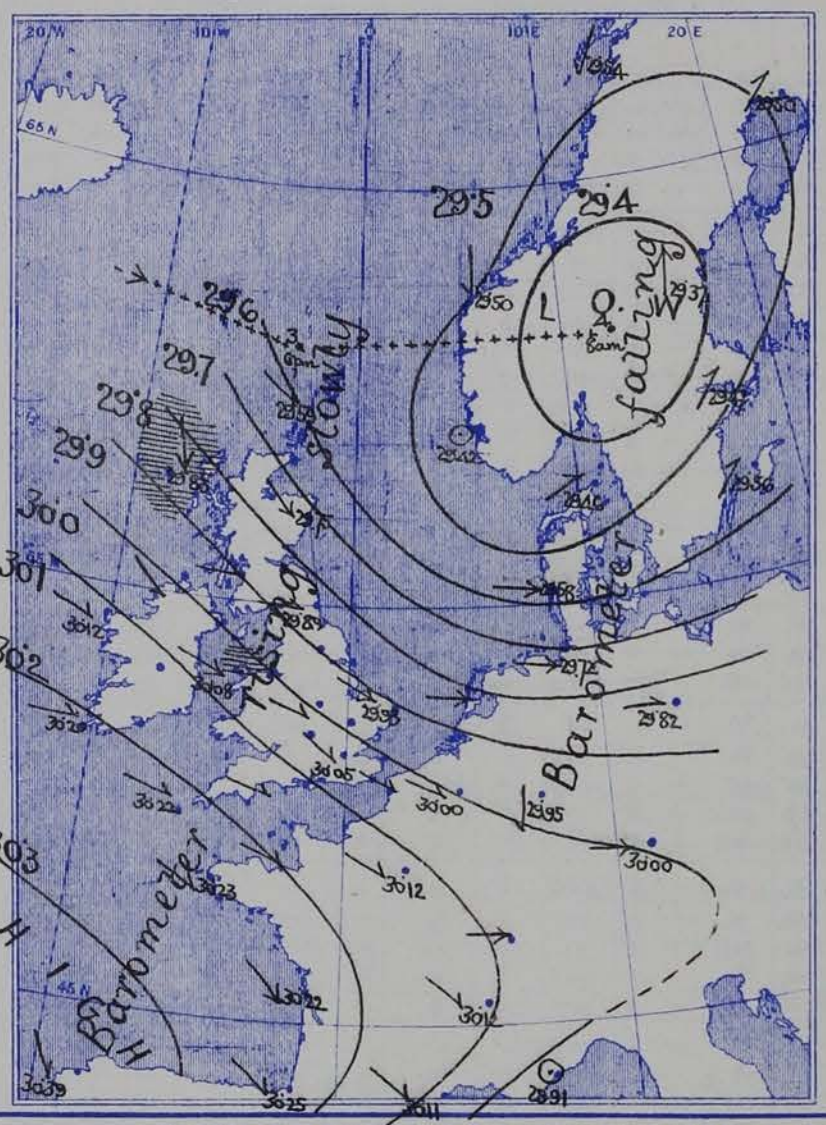
FOR Sunday, 4th July, 1897.

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

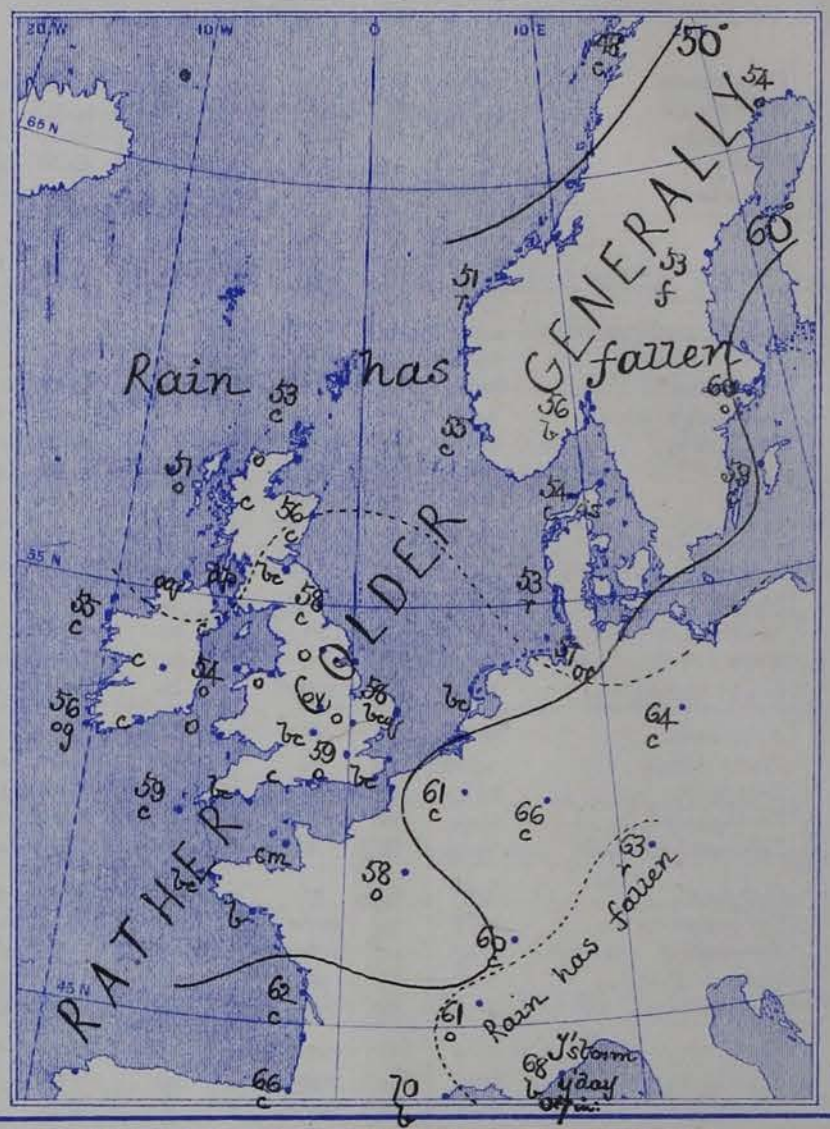
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 56	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest, 30·39 in: at Corunna, 30·1 in: and upwards in an anticyclone extending from the Atlantic over all the more southwestern parts of our Islands and the greater part of France and the Spanish Peninsula.
Lowest, 29·4 in: and less, in a depression lying over the more central parts of Scandinavia.
Gradients moderate over the North Sea and the north and east of our Islands, but slight elsewhere. Barometer rising in our Islands and France, but falling in Scandinavia, Denmark & Germany.

TEMPERATURE — Highest, 79° at Lisbon, 70° at Perpignan, 68° at Nice, 66° at Biarritz and Valentia, and 64° at Berlin.
Lowest, 48° at Bodö, 51° at Christiansund and Stornoway, 52° at Aberdeen and Malin Hd., and 53° at Hernösand and Lerwick.
During yesterday the thermometer rose to 65° and upwards at most of our central and southern stations and to 73° at the North Foreland; on our extreme north and northwest coasts it did not reach 60°.

WIND — W. or NW. over Western Europe generally, and strong in force on many parts of our northwest, north, and east coasts.
Light to moderate from the SW. in Sweden, but N. on the west coast of Norway.

WEATHER — Cloudy or dull over Northwestern Europe, as a whole, with rain at Christiansund, Torö and Cuxhaven, and passing showers at Aberdeen.
Fine at most stations in the west and south of France, but dull in South Germany, with rain at Munich.
Rain fell yesterday in the extreme north and northwest of our Islands generally, as well as in many parts of Scandinavia, Denmark, Germany, and the south of France. A thunderstorm, with heavy rain, occurred at Lyons.

SEA — Moderate or slight generally, but rough at Stornoway, and rather rough at Ijmuiden.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 5th JULY 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED	6 SCOTLAND WEST	NONE ISSUED.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	The South Cone is still flying in districts 0 and part of 1.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.62	57	54	SSW	6	o	4
Sumburgh Head	29.30	52	51	W	4	o	4
Stornoway	29.51	55	55	NW	7	o	8
Aberdeen	29.58	60	52	SW	4	cqu	3
Shields	29.84	57	52	SW	4	cp	2
Ardrossan	29.80	58	56	W	7	bc	5
Malin Head ...	29.87	55	55	W	6	c	4
Belmullet	30.07	57	56	WNW	4	o	*
Holyhead	30.03	60	55	SW	4	c	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.19	60	55	W	3	c	4
Scilly ...	30.19	63	57	WNW	4	c	2
Jersey ...	30.15	64	61	W	5	c	4
Hurst Castle 2.50 p.m.	30.06	70	61	WNW	4	c	3
Dungeness ...	29.98	66	62	WSW	4	bc	3
North Foreland	29.99	72	62	W	4	c	2
London (Westminster)	29.99	72	60	WNW	2	c	*
Yarmouth ...	29.93	67	59	WNW	3	c	2
Rochefort ...	30.13	70	70	NW	5	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fair over our Islands as a whole, but dull at several of our northern stations, as well as on the eastern shores of the North Sea, with rain at Malin Head, Skudesnaes, and the Scaw. Dull also over Northern Russia and in France, with rain in the extreme south of the latter country, fine in Sweden, and also in Austria, Italy, and the south of Russia. A little rain falling later in the extreme north and northwest of our Islands generally, as well as in many parts of Scandinavia, Denmark and Germany. Thunderstorm and heavy rain occurring at Nice.

Temperature fallen in most places, but risen over the southeastern parts of England. Morning readings highest 83° at Brindisi, 82° at Trieste and Athens, 86° at Sanguinaire, and 84° at Leghorn; above 80° at most of the Mediterranean and Adriatic stations. Lowest 48° at Bodö, 51° at Sumburgh Hd, 53° at Christiansund, and 54° at Haparanda, Stornoway, Ardrossan, Malin Hd and Belmullet. Daily maxima below 60° on our extreme north and northwest coasts, but thermometer exceeding 70° over the southeastern parts of England. Exceeding 80° in many parts of central and southern Europe, reaching 86° at Lisbon.

Wind W' or SW' over our Islands and the eastern and southern shores of the North Sea; very strong in force in the north of Ireland and the west of Scotland, and blowing a gale at Skudesnaes. Light to moderate from the N'ly or NW'ly over Russia, eastern Germany and the south of Sweden; variable in Austria and Italy; N' or NW' over France and the Spanish Peninsula. Subsequently veering to the NW'ly in many parts of our Islands; increasing considerably in the north of Scotland, and blowing a gale in the Hebrides.

Barometer highest 30.2 in. and upwards in an anticyclone extending from the Atlantic over the western parts of the Spanish Peninsula, and also over the extreme northwest of France. Lowest 29.4 in. and less, in a depression lying off the north of Scotland, 29.6 in. and less, in a shallow system over Central Russia. Depression off our northern coasts subsequently moving steadily eastwards, and barometer rising again in the west and north of our Islands generally.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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,, Weekly ,, ,, ,, £1 10 0 ,,

DAILY WEATHER REPORT

for 8 a.m. on Monday 5th July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.49	55	SSE	4	r	29.50	·00	56	56	+ 2	SE	2	r	*	r	*	72	50	0.24
	Hernösand ...	29.43	54	E	2	c	29.51	+ ·14	55	51	+ 2	NW	6	c	*	c	*	61	52	—
	Stockholm ...	29.45	55	SW	2	c	29.50	+ ·03	62	57	+ 2	W	2	bc	*	c	*	64	54	0.20
	Wisby	29.52	58	WSW	4	bc	29.58	+ ·02	55	54	— 4	WNW	4	r	*	bc	*	63	52	0.08
	Karlstad ...	29.46	55	NW	2	c	29.60	+ ·20	55	48	— 3	NNW	4	b	*	c, r	*	*	*	0.08
	Bodö	29.96	49	N	4	b	29.71	+ ·17	48	42	0	N	4	bc	1	b	*	54	45	—
	Christiansund ...	30.13	50	NE	1	f	29.79	+ ·23	49	45	— 2	ENE	4	b	3	f	*	55	43	0.04
	Skudesnaes ...	29.69	54	N	6	o	29.75	+ ·33	52	48	— 3	NNW	2	o	2	o	*	59	50	*
	Færder (Christiania Fjord)	29.51	62	SW	2	b	29.66	+ ·26	55	49	— 1	N	3	c	3	b	*	63	55	—
	Skagen (The Scaw)	29.54	63	NW	1	b	29.65	+ ·19	60	54	+ 6	E	1	bc	0	b	*	64	52	0.04
	Fanö	29.71	56	W	6	c	29.82	+ ·24	55	51	+ 2	WNW	6	c	*	c	*	59	52	0.04
	Sumburgh Head	29.82	52	NW	2	c	29.54	+ ·05	49	49	— 4	SE	2	r	4	c	*	56	48	0.07
	Stornoway ...	29.87	55	W	2	o	29.45	+ ·38	56	56	+ 5	WSW	5	c	5	p, o	2.1	56	48	0.11
	Wick	29.85	54	NW	4	o	29.51	— ·24	55	52	0	S	3	b	4	o	*	60	48	0.16
	Nairn	29.99	60	W	4	c	29.51	— ·27	63	60	+ 8	WSW	3	bc	1	c	*	64	48	0.05
	Aberdeen ...	29.91	56	NW	2	og	29.59	— ·16	54	52	— 2	SW	4	ogq	2	og, r	3.5	62	50	0.03
BRITISH ISLANDS.	Leith	29.94	63	WSW	2	c	29.65	— ·18	61	59	+ 3	WSW	3	r	*	c	*	67	52	0.01
	Shields	29.97	59	W	3	c	29.78	— ·07	57	56	— 1	SW	3	o	2	c, r	*	65	51	0.05
	Spurn Head ...	30.01	58	WNW	5	c	29.87	+ ·02	60	60	+ 3	SW	3	o	3	c, r	*	62	52	0.03
	York	30.03	58	W	2	o	29.87	— ·05	60	58	+ 4	SSW	1	o	*	c, o	4.1	61	51	0.01
	Loughborough ...	30.09	60	WNW	3	c	29.95	— ·04	61	59	+ 6	WSW	4	ogw	*	og, c	*	61	52	—
	Ardrossan ...	29.99	55	W	2	o	29.65	— ·28	55	55	+ 3	S	5	dp	3	o	*	57	51	0.05
	Malin Head ...	30.01	55	WNW	3	or	29.58	— ·44	57	57	+ 5	SW	5	r	3	bc, or	*	57	51	0.43
	Belmullet ...	30.02	59	SW	4	o	29.66	— ·46	59	58	+ 4	WSW	6	or	*	o	*	60	53	0.37
	Donaghadee ...	30.05	55	SE	3	c	29.75	— ·28	56	54	+ 3	WSW	4	c	2	c	*	64	51	0.03
	Liverpool (Bidston)	30.08	57	W	3	o	29.88	— ·13	62	58	+ 8	WSW	3	o	3	o	*	63	53	—
	Holyhead ...	30.12	58	SW	4	c	29.89	— ·19	57	56	+ 3	SW	4	og	3	c	*	63	52	—
	Parsonstown ...	30.08	63	W	1	o	29.84	— ·31	60	58	+ 4	W	2	od	*	c, o	3.7	64	55	—
	Valencia ...	30.15	61	SW	2	om	29.90	— ·30	59	58	+ 3	SSW	6	og	6	om	0.0	62	55	0.01
	Roche's Point ..	30.14	63	NW	4	b	29.97	— ·22	59	57	0	WSW	5	ou	4	bm, f	*	66	58	—
	Pembroke (St. Ann's Hd.)	30.16	58	NW	4	c	30.01	— ·14	58	57	+ 2	W	5	og	4	c	6.3	61	55	—
	Scilly	30.22	60	W	3	om	30.11	— ·11	62	60	+ 3	SW	3	c	3	o	2.5	64	55	—
	Prawle Point ...	30.19	59	W	4	bc	30.10	— ·08	58	58	— 3	WSW	4	of	3	bc, rf	*	65	55	0.02
	Jersey (St. Aubin's)	30.22	62	WNW	2	bc	30.17	— ·03	60	59	— 1	WSW	4	odfm	3	bc	*	64	57	0.02
	Hurst Castle ...	30.14	67	WNW	4	bc	30.08	— ·03	61	60	0	SW	4	ou	2	bc	*	69	55	—
	Dungeness ...	30.07	66	WNW	4	o	30.06	+ ·03	61	58	— 2	WSW	4	b	3	c, o	*	71	47	—
	North Foreland	30.10	61	NW	4	o	30.06	+ ·04	64	57	+ 3	SW	3	o	2	c, o	*	66	50	—
	London (Brixton) ...	30.09	66	WNW	3	bc	30.04	— ·01	65	59	+ 6	SW	2	c	*	bc, c, b	8.3	68	49	—
	Oxford	30.13	58	W	2	b	30.01	— ·05	63	60	+ 7	SW	3	o	*	b	*	66	52	—
	Cambridge ...	30.10	60	NW	2	o	30.00	— ·01	62	59	+ 5	SW	3	o	*	o	4.3	63	45	—
	Yarmouth ...	30.01	60	WNW	4	c	29.97	+ ·04	60	54	+ 2	WSW	3	bc	3	c	*	61	54	—
GERMANY & HOLLAND.	Cuxhaven ...	29.76	56	W	6	r	29.92	+ ·20	56	53	— 1	W	5	o	*	p	*	61	55	? 0.08
	Berlin	29.80	60	W	5	c	29.94	+ ·12	58	53	— 6	WNW	3	o	*	c	*	68	54	—
	Wiesbaden ...	*	*	*	*	*	30.13	+ ·18	59	55	— 7	NW	1	c	*	*	*	70	52	—
	Munich... ..	30.10	59	W	3	b	30.21	+ ·21	55	51	— 8	W	3	o	*	b	*	66	52	0.04
	The Helder ...	29.98	58	WNW	5	bc	29.99	+ ·15	59	55	+ 1	WSW	3	c	2	bc	*	59	55	—
BELGIUM.	Brussels ...	*	*	*	*	*	30.11	+ ·11	60	55	— 1	SW	4	o	*	o	*	65	52	—
	Cape Gris Nez...	30.06	59	SW	4	o	30.06	+ ·05	58	55	0	SW	3	b	2	o	*	63	54	—
	Paris	30.16	62	NW	3	b	30.17	+ ·05	58	55	0	SW	1	b	*	b	*	69	48	—
	Brest	30.26	62	NW	2	bc	30.21	— ·02	59	59	0	WSW	2	f	2	bc	*	64	54	—
	Lorient... ...	30.25	62	NW	5	o	30.23	— ·01	62	61	+ 3	SW	3	o	3	o	*	70	57	—
FRANCE &	Rochefort ...	30.31	65	NW	5	bc	30.23	+ ·01	60	58	— 2	NNE	3	b	*	bc	*	70	55	—
	Belfort	30.06	63	W	4	c	30.13	+ ·09	57	53	— 3	NE	1	bc	*	c	*	75	47	—
	Lyons	30.11	67	NW	3	b	30.15	+ ·03	61	55	0	N	3	b	*	b	*	75	55	—
	Nice																*			
	Perpignan ...	30.06	75	NW	5	b	30.08	— ·03	69	57	— 1	NW	5	b	*	b	*	78	63	—
	Biarritz ...	30.22	68	NW	4	c	30.22	— ·03	61	59	— 5	W	0	o	1	c	*	73	59	—
PENINSULA.	Corunna ...																*			
	Lisbon	30.02	78	N	4	b	29.98	— ·37	77	62	— 12	NNE	4	b	*	b	*	90	75	—
	Azores (P. Delgada)	30.34	66	SE	3	c	30.30	+ ·16	66	62	— 13	ENE	2	o	2	c	*	72	63	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 8.0 hrs;

WEATHER CHARTS

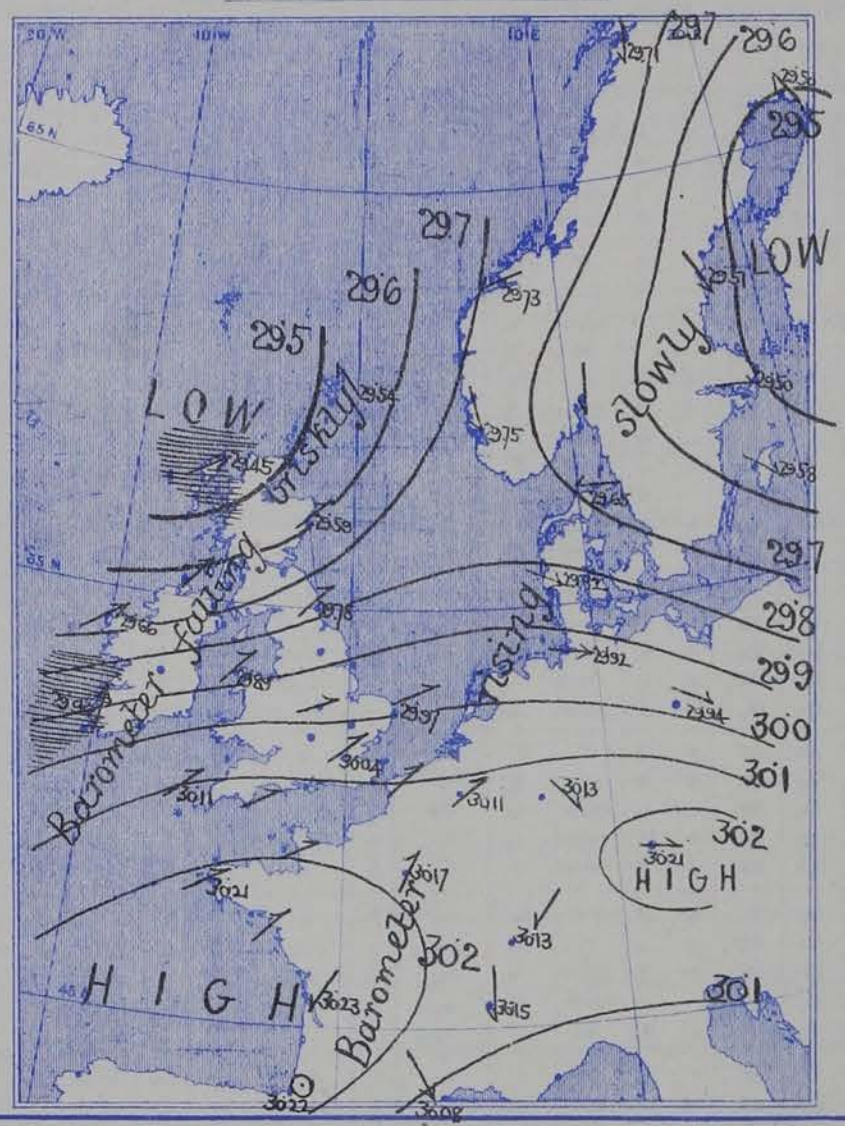
FOR Monday, 5th July, 1897.

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and upwards in an anticyclone lying over the Bay of Biscay, the west of France and the north of Spain.
Lowest 29.5 ins. and less in a depression approaching the NW. of Scotland, and also in a shallow and rather complex system over the Gulfs of Bothnia and Finland.
Gradients rather steep over Ireland and the S. of Scotland, but moderate or slight elsewhere.
Barometer falling in our Islands, briskly in the W. and N.; rising at most of the Continental stations.

TEMPERATURE

Highest (1) 77° at Lisbon, and 69° at Perpignan, (2) 65° in London, and 63° at Nairn and Liverpool; (3) 62° at Stockholm, and 60° at the Scaw.
Lowest 48° at Bodö, 49° at Christiansund and Sumburgh Hd., 52° at Skudesnaes, and 54° at Aberdeen.
During yesterday the thermometer rose to 65° and upwards at many of our E.rn. and S.rn. stations, and to 71° at Dungeness; on our extreme N. and NW. coasts it did not reach 60°.

WIND

SW.ly over the United Kingdom and the adjacent parts of the Continent; fresh to strong in force on our extreme W. and NW. coasts, but light or moderate elsewhere.
Moderate to strong from the N.wd. or NW.wd. in Scandinavia and from the W.wd. in Denmark & Germany.
Light from the N.wd. over the central and southern parts of France.

WEATHER

Cloudy or dull over NW.rn. Europe as a whole, with rain in the N. of Ireland and the S. of Scotland, as well as at Sumburgh Hd., Haparanda and Wisby.
Fine in the N. of Scotland and the W. of Norway, as well as over the greater part of France.
Since yesterday morning rain has fallen at most of our own W.rn. and N.rn. stations, and also in Scandinavia and Denmark, the quantity being, however, mostly slight.

SEA

Rough at Valencia (Ireland) and rather rough at Stornoway, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression off our NW. coasts is likely to move in a NE.ly or E.NE.ly direction, and a considerable increase of wind from SW. and W. is probable over the northern and northwestern parts of the Kingdom.

FORECASTS

For the 24 hours ending at NOON on 6TH JULY 1897.

DISTRICTS.	FORECASTS.
↓ 1 SCOTLAND NORTH	SW.ly to W.ly winds increasing to a gale, fine at first, then squally and rainy.
↓ 1 SCOTLAND EAST; 2 ENGLAND N.E.	SW.ly winds, freshening considerably; squally, some rain.
3 ENGLAND EAST; 4 MIDLAND COUNTIES; 5 ENGLAND SOUTH	SW.ly winds, freshening; fair at first, some rain later.
↓ 6 SCOTLAND WEST; ↓ 7 ENGLAND N.W.	SW.ly to W.ly strong winds or gales; squally and rainy at first, some improvement later.
8 ENGLAND S.W.	SW.ly and W.ly winds, fresh; cloudy, showery.
↓ 9 IRELAND NORTH; ↓ 10 IRELAND SOUTH	Same as Nos. 6 and 7.
WARNINGS	At 10.10 am. today to districts 0, 6, 7, 9 and parts of 1 and 10. Hoist South Cone.

Note.—The **South Cone**, *point downwards* (↓), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (↑), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.54	59	55	NNW	6	c	4
Sumburgh Head							
Stornoway	29.90	55	54	WNW	3	o	3
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	30.04	56	56	WNW	.4	bc	3
Belmullet	30.09	59	59	SSW	3	o	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	30.20	64	58	WNW	4	bc	3
Hurst Castle ...							
Dungeness ...	30.06	67	56	WNW	4	c	3
North Foreland	30.07	64	55	NW	4	c	3
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30.21	69	67	NW	5	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM THE 27TH JUNE TO 3RD JULY 1897.

Throughout last week frequent changes were again observed in the distribution of pressure over our area, and consequently in the winds and weather.

At the commencement of the time, when the barometer was highest over Scandinavia, the weather over our Islands was influenced partly by a well marked depression which lay off the south of Ireland, and partly by small secondary disturbances which advanced from the S.W. Light to moderate breezes from between E. and SE. were reported very generally, with changeable weather in most districts, and with thunderstorms in many parts of England.

Later on the high pressure system dispersed, while the depression in the SW. moved away to the S.W. For a time the readings of the barometer were extremely uniform and the winds light and variable, the weather being dry rather changeable, with showers in many places. On the 30th June, however, an anticyclone spread in from the Atlantic and N. breezes became prevalent, with a general improvement in the weather. This change proved, however, like the others merely temporary. Towards the close of the week the anticyclone receded S.W., while a well marked depression skirted the N. of Scotland, the wind backing to the W. and increasing considerably in force on our N. and NW. coasts, with a gale in the W. of Scotland.

Temperature was fairly high for the time of year excepting on our NE. and NW. coasts, where a good deal of fog prevailed. Over England the thermometer on June 28th rose in some places slightly above 80°.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Tuesday 6th July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ... †	29.52	52	L	0	0	29.90	+.40	53	51	−3	S	2	c	*	0	*	64	50	0.43
	Hernösand ... †	29.59	54	L	0	bc	29.52	+.01	58	53	+3	E	4	b	*	bc	*	63	52	—
	Stockholm ... †	29.64	59	S	2	b	29.56	+.06	62	57	0	SW	2	c	*	b	*	66	52	0.04
	Wisby ... ... †	29.71	59	SW	4	b	29.65	+.07	59	55	+4	SW	4	bc	*	b	*	63	50	0.04
	Karlstad ... †	29.58	62	SW	4	b	29.47	−.13	56	55	+1	SE	4	r	*	b	*	*	*	0.04
	Bodö	29.63	48	WSW	4	b	29.46	−.25	57	49	+9	E	4	b	1	b	*	57	43	—
	Christiansund ...	29.50	54	ENE	3	b	29.12	−.61	55	52	+6	L	0	r	2	b	*	55	48	0.39
	Skudesnaes ...	29.47	53	S	8	r	29.28	−.47	55	53	+3	SW	6	o	5	o.r	*	55	52	*
	Færder (Christiania Fjord)	29.57	60	SSW	4	c	29.37	−.29	59	58	+4	SSW	7	o	4	c	*	63	55	0.12
	Skagen (The Scaw)	29.66	56	WSW	2	bc	29.47	−.18	58	57	−2	WSW	3	o	1	bc	*	63	54	0.12
	Fanö	29.69	59	SW	6	c	29.52	−.30	59	58	+4	SW	6	o	*	c	*	61	55	0.04
	Sumburgh Head	29.18	52	NE	1	r	29.10	−.44	52	50	+3	SW	2	c	4	r	*	55	47	0.38
	Stornoway ...	29.23	55	W	3	o	29.14	−.31	50	50	−6	W	6	o	7	o	2.8	56	45	0.35
	Wick	29.19	56	W	6	o	29.17	−.34	53	52	−2	NW	6	o	4	o	*	64	47	0.12
	Nairn	29.21	61	WSW	3	c	29.22	−.29	51	49	−12	WSW	3	cp	3	cp	*	67	47	0.23
	Aberdeen ...	29.27	59	SSW	3	c	29.28	−.31	58	50	+4	SW	4	bcq	2	gpq.c	1.0	62	51	0.01
BRITISH ISLANDS.	Leith	29.39	59	W	4	b	29.40	−.25	57	?	−4	WSW	4	b	*	b	*	66	50	0.02
	Shields	29.50	63	SW	5	bc	29.51	−.27	56	52	−1	WSW	4	c	2	o.bc	*	65	52	—
	Spurn Head ...	29.67	63	SW	5	o	? 29.58	−.29	58	57	−2	WSW	4	c	3	o.p	*	68	56	—
	York	29.66	63	S	2	o	29.61	−.26	57	52	−3	WSW	3	c	*	o	0.1	67	54	0.09
	Loughborough ...	29.76	63	SW	4	o	29.69	−.26	58	53	−3	WSW	2	c	*	cq.oq.c	*	64	53	—
	Ardrossan ...	29.46	56	WSW	4	op	29.47	−.18	53	52	−2	WSW	5	cpq	4	op	*	56	50	0.27
	Malin Head ...	29.43	54	W	6	oq	29.51	−.07	52	50	−5	W	6	bcpq	4	oq.rq	*	58	48	0.26
	Belmullet ...	29.62	57	W	6	bc	29.70	+.04	54	54	−5	W	4	c	*	opq.bc	*	59	49	0.18
	Donaghadee ...	29.53	66	WSW	6	bcp	29.60	−.15	55	51	−1	WSW	6	bc	4	bcp	*	66	49	0.06
	Liverpool (Bidston)	29.66	62	SW	6	o	29.65	−.23	55	50	−8	WSW	6	bc	4	op	*	64	53	0.03
	Holyhead ...	29.67	58	SW	7	ogqm	29.70	−.19	59	55	+2	WSW	5	bc	4	rq.oqq	*	59	52	0.11
	Parsonstown ...	29.69	59	W	2	o	29.75	−.09	55	51	−5	SW	1	bc	*	or.bc	0.3	62	50	0.12
	Valencia ...	29.79	58	WSW	4	c	29.82	−.08	57	53	−2	W	4	c	4	rm.c	0.2	60	53	0.21
	Roche's Point ...	29.77	60	WSW	5	r	29.82	−.15	57	53	−2	W	3	c	3	d	*	61	52	0.01
	Pembroke (St. Ann's Hd.)	29.81	59	WNW	6	o	29.79	−.22	61	58	+3	NW	5	bcq	5	o	0.1	? 61	55	—
	Scilly	29.96	62	SW	5	o	29.85	−.26	58	55	−4	W	4	o	4	o	1.0	66	55	0.07
	Prawle Point ...	29.98	59	WSW	5	o	29.83	−.27	56	56	−2	W	4	op	3	o.rf	*	62	55	0.33
	Jersey (St. Aubin's)	30.06	63	W	5	om	29.90	−.27	61	60	+1	SW	4	odm	3	og	*	67	58	0.01
	Hurst Castle ...	29.94	61	SW	6	om	29.80	−.28	58	58	−3	WNW	3	p	3	cm.om	*	65	58	0.05
	Dungeness ...	29.91	60	SW	6	o	29.76	−.30	59	59	−2	WSW	6	r	5	c.o	*	63	59	0.11
	North Foreland	29.88	66	SW	4	oq	29.76	−.30	60	59	−4	SW	4	o	3	c.oq	*	70	59	—
	London (Brixton) ...	29.85	67	SW	4	o	29.77	−.27	59	55	−6	WSW	2	o	*	c.o.p	5.7	76	58	0.01
	Oxford	29.83	61	SW	4	o	29.75	−.26	57	53	−6	W	3	op	*	op	*	69	57	0.04
	Cambridge	29.81	66	WSW	5	o	29.73	−.27	60	54	−2	WSW	3	o	*	o	2.1	73	57	—
	Yarmouth ...	29.79	67	WSW	5	c	29.68	−.29	61	59	+1	W	4	c	3	cq	*	71	59	0.03
GERMANY & HOLLAND.	Cuxhaven ...	29.87	61	WSW	4	o	29.67	−.25	62	60	+6	SW	5	o	*	op	*	63	56	—
	Berlin	29.95	62	WSW	1	o	29.84	−.10	63	57	+5	SW	3	o	*	o	*	64	50	—
	Wiesbaden ...	*	*	*	*	*	29.98	−.15	61	56	+2	SW	1	o	*	*	*	70	54	—
	Munich... ..	30.14	59	SE	2	c	30.10	−.11	62	58	+7	W	2	b	*	c	*	66	48	—
	The Helder ...	29.80	60	SW	5	o	29.68	−.31	62	59	+3	SW	6	o	4	o	*	63	58	—
	Brussels ...	*	*	*	*	*	29.86	−.25	60	58	0	SW	4	r	*	o	*	70	58	—
	Cape Gris Nez...	29.92	58	SSW	5	o	29.80	−.26	57	57	−1	W	6	r	5	o	*	61	55	0.20
	Paris	30.08	68	SW	2	bc	29.97	−.20	63	60	+5	SW	2	o	*	bc	*	73	58	—
	Brest	30.11	63	WSW	2	m	29.92	−.29	59	59	0	SW	4	f	3	m	*	63	55	—
	Lorient... ...	30.12	63	W	5	o	29.98	−.25	61	61	−1	W	5	r	5	o	*	70	57	0.04
FRANCE & BELGIUM.	Rochefort ...	30.13	68	NW	4	b	30.05	−.18	64	63	+4	NW	1	o	*	b	*	73	59	—
	Belfort	30.04	67	WSW	4	b	30.02	−.11	59	52	+2	W	1	c	*	b	*	73	47	—
	Lyons	30.07	71	NNW	2	b	30.04	−.11	66	53	+5	SSE	1	b	*	b	*	75	56	—
	Nice	29.88	77	L	0	c	29.95		80	67		E	1	b	0	c	*	82	68	—
	Perpignan ...	30.00	77	NW	3	b	30.00	−.08	72	62	+4	W	2	b	*	b	*	82	61	—
	Biarritz ...	30.10	68	N	3	b	30.01	−.21	66	62	+5	N	2	b	2	b	*	73	59	—
PENINSULA.	Corunna ...																*			
	Lisbon	29.88	80	NNW	5	b	29.88	−.10	81	66	+4	NE	4	b	*	b	*	81	75	—
	Azores (P. Delgada)	30.28	68	SE	3	o	30.25	−.05	67	64	+1	L	0	o	2	o	*	75	64	0.35

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

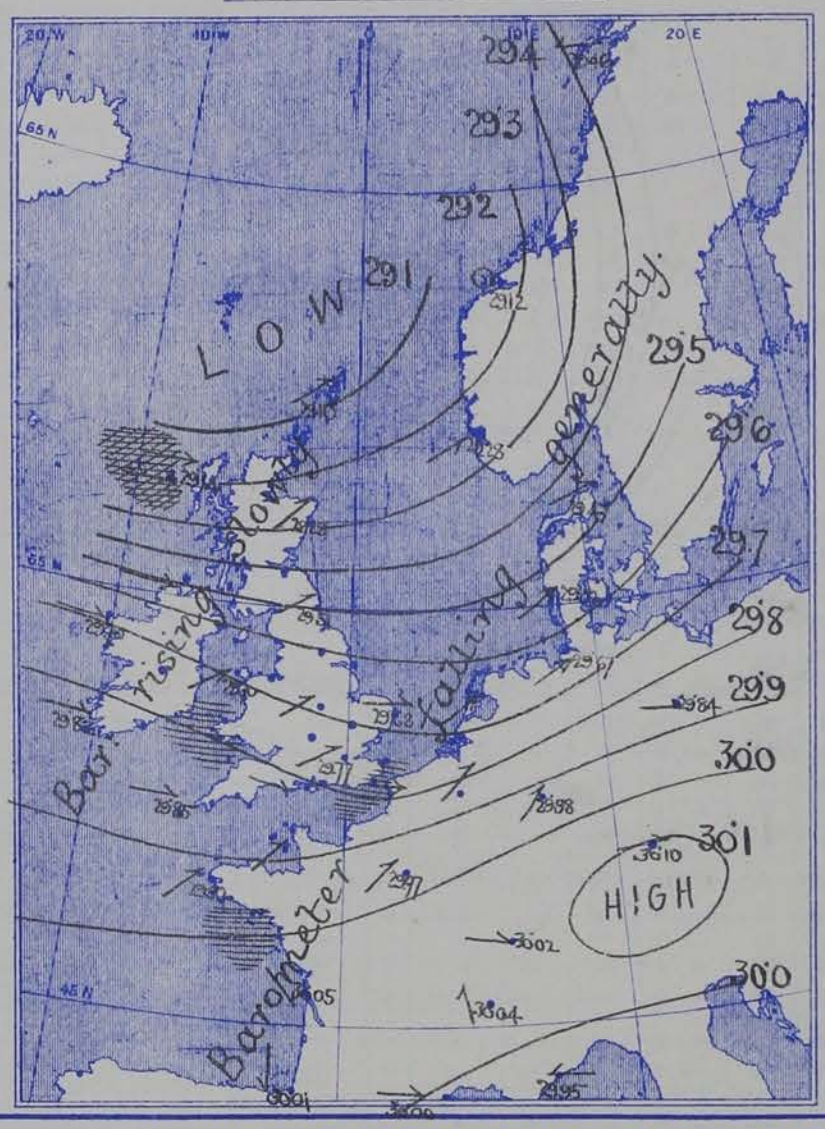
Bright Sunshine yesterday Southport 0.4 hrs;

WEATHER CHARTS

FOR Tuesday, 6th July, 1897.

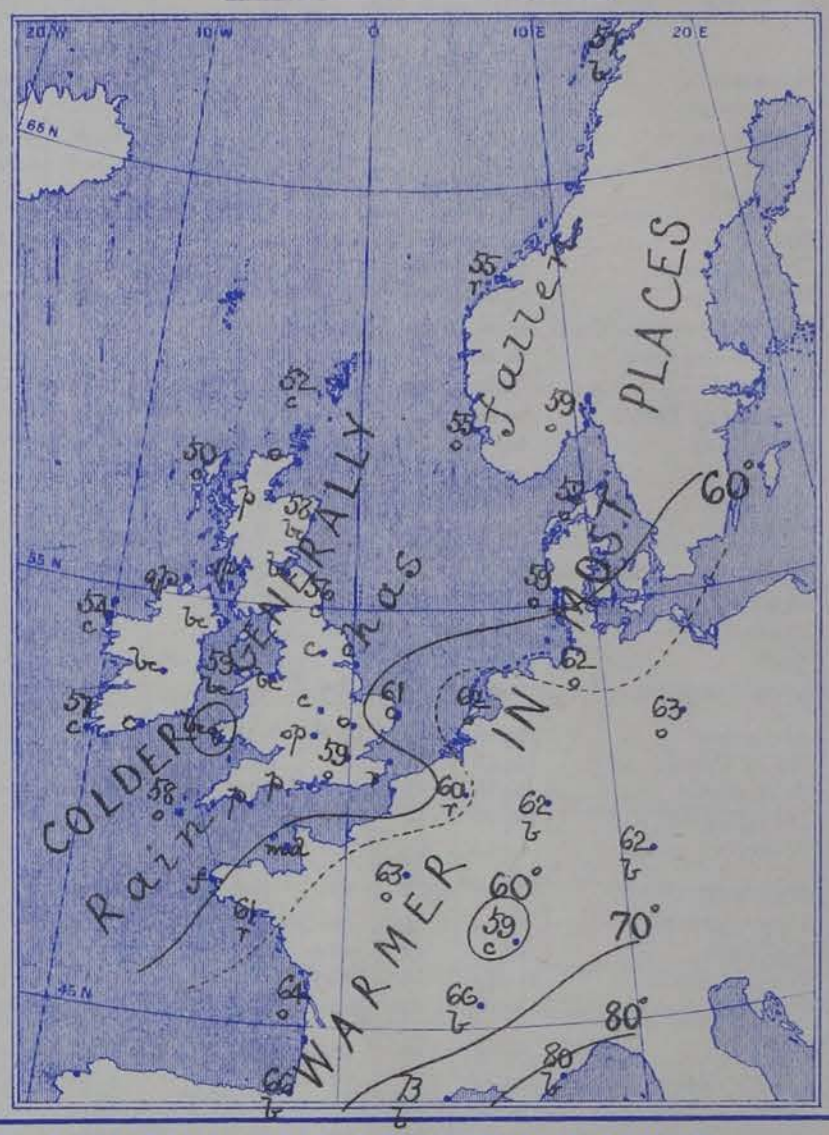
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; } Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 56	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 73	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.10 ins. at Munich; 30.0 ins. and upwards over the Bay of Biscay and all the more southern parts of France and Germany.
Lowest 29.1 ins. and less in a well marked depression lying off the north of Scotland.
Gradients moderate generally, but rather steep over the west of Scotland.
Barometer rising in most parts of the United Kingdom, but falling at the Continental stations

TEMPERATURE

Highest 81° at Lisbon, 80° at Nice, 73° at Perpignan, 66° at Lyons and Biarritz, 64° at Rochefort, and 63° at Paris and Berlin.
Lowest 50° at Stornoway, 51° at Nairn, 52° at Eyemouth Hd. and Malin Hd. & 53° at Wick & Aberdeen.
During yesterday the thermometer rose to 70° and upwards in the E. and SE. of England and to 76° in London. On our extreme N. and NW. coasts it did not reach 60°.

WIND

W^ly over our islands and strong in force on our northwestern and extreme northern coasts, as well as in the Straits of Dover.
Strong from the SW^wd on the eastern shores of the North Sea, and moderate from the same quarter in the north of France.
Light from the N^wd or NW^wd over the southern parts of France.

WEATHER

Fine over the more central parts of the United Kingdom and also in the south of France.
Dull in most other parts of W^rn Europe, with showers at several of our own N^rn and extreme southern stations, and steady rain at Dungeness, Cape Gris Nez and Brussels.
Rain fell yesterday in many parts of NW^rn Europe, but the quantity was as a rule slight

SEA

High at Stornoway and rather rough in the Straits of Dover, as well as at Pembroke & Lorient.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depression which was approaching our NW. coasts yesterday is now passing away to the N^wd of Scotland. Strong W^ly winds are likely to prevail for a time in the extreme N. and NW, but with improving weather.

FORECASTS

For the 24 hours ending at NOON on 7th JULY 1897.

DISTRICTS.	FORECASTS.
1 SCOTLAND NORTH	W^ly strong winds or gales, moderating later, squally, some showers.
1 SCOTLAND EAST	SW^ly and W^ly winds moderate or fresh; fair generally, but perhaps local showers.
2 ENGLAND N.E.	
3 ENGLAND EAST	W^ly winds, moderate; fair generally.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	W^ly winds, strong at first, but moderating later; changeable, some showers.
7 ENGLAND N.W.	
8 ENGLAND S.W.	W^ly winds moderate or fresh; fair generally, but perhaps local showers.
9 IRELAND NORTH	Same as No. 6 and 7.
10 IRELAND SOUTH	Same as No. 8
WARNINGS	The South Cone is still flying in districts 0, 6, 7, 9 and parts of 1 and 10.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.69	56	52	S	4	o	3
Sumburgh Head	29.35	52	51	S	2	r	4
Stornoway	29.25	56	56	S	2	o	3
Aberdeen	29.39	58	56	S	4	ogpq	3
Shields	29.65	60	59	SW	3	o	2
Ardrossan	29.49	56	56	S	7	op	6
Malin Head ...	29.42	56	55	WSW	7	oq	5
Belmullet	29.63	59	58	WSW	7	opq	*
Holyhead	29.75	56	56	SW	7	rqm	5

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.78	60	59	SW	6	om	6
Scilly	30.04	65	64	SW	5	o	4
Jersey	30.11	64	62	SW	3	o	3
Hurst Castle ...	30.00	64	62	SW	5	cm	3
Dungeness ...	29.95	62	60	SW	5	c	4
North Foreland	29.94	65	61	SSW	4	c	3
London (Westminster)	29.90	75	65	WSW	3	c	*
Yarmouth ...	29.85	68	61	SW	4	c	3
Rochefort ...	30.20	73	69	NW	3	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over N.W.rn Europe as a whole, with rain in the N. of Ireland and the S. of Scotland, as well as at Sumburgh Hd.; fine in the N. of Scotland and the W. of Norway. Dull over Austria, Germany, the Baltic and the N.rn parts of Sweden and Russia, with rain at Wisby, Haparanda and St. Petersburg. Fine over France and S.rn Europe generally. Rain falling later in most of the N.W.rn and N.rn countries, but amount not large.

Temperature risen in our Islands, and also in Sweden and Russia, but fallen in most other countries. Morning readings highest 80° at Sanguinaire and Constantinople, 79° at San Fernando, and 78° at Barcelona; above 70° in many parts of S.rn Europe. Lowest 48° at Bodö, 49° at Christiansund and Sumburgh Hd., and 52° at Skudesnaes. Daily maxima below 60° on our extreme N. and N.W. coasts, but thermometer exceeding 65° in most other parts of Gt. Britain, and exceeding 70° in the E. and S.E. of England; reaching 81° at Lisbon, and 82° at Nice and Perpignan.

Wind S.W.ly over our Islands and the neighbouring parts of the Continent, and strong in force in the west of Ireland. N.ly or N.E.ly in the west of Norway; N.W.ly or W.ly over Sweden, Denmark and Germany; S.ly or S.E.ly at most of the Russian stations. Rather variable over southern Europe, but chiefly from the N.wd or E.wd. Subsequently blowing strongly from the S.W.wd or W.wd in nearly all parts of the United Kingdom.

Barometer highest 30.2 ins. and upwards in an anticyclone over the Bay of Biscay and the W. of France. Lowest 29.5 ins. and less in two depressions,—one lying off the N.W. of Scotland and the other over the Gulf of Bothnia; 29.8 ins. and less in two other systems,—one lying over the Adriatic, and the other to the S.wd of Sicily. Depression off Scotch coasts spreading S.E.wds later, and barometer falling briskly over our Islands generally.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Wednesday 7th July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.38	56	NE	2	r	29.28	−.62	55	54	+ 2	S	2	o	*	r	*	68	48	0.39
	Hernosand ...	29.37	55	SSE	2	o	29.24	−.28	57	53	− 1	S	6	c	*	o	*	66	41	—
	Stockholm ...	29.43	60	SSW	2	o	29.46	−.10	58	53	− 4	SW	6	o	*	o	*	66	54	0.04
	Wisby	29.53	60	SSW	6	r	29.54	−.11	59	56	0	W	4	bc	*	r	*	63	52	—
	Karlstad ...	29.39	59	SSW	4	o	29.38	−.09	56	52	0	SW	6	o	*	o	*	*	*	0.04
	Bodö	29.32	62	E	4	b	29.18	−.28	60	51	+ 3	E	2	o	1	b	*	70	48	—
	Christiansund ...	29.22	54	ESE	2	c	29.17	+.05	54	52	− 1	ESE	2	bc	3	c	*	57	50	0.43
	Skudesnaes ...	29.33	54	SW	6	o	29.23	−.05	53	50	− 2	SSW	8	o	5	r.o	*	55	52	*
	Færder (Christiania Fjord)	29.33	58	SW	8	m	29.36	−.01	57	54	− 2	SW	6	c	4	m	*	61	54	—
	Skagen (The Scaw)	29.49	54	WSW	4	b	29.42	−.05	57	54	− 1	SW	5	c	1	b	*	64	50	—
	Fanö	29.57	56	W	6	c	29.47	−.05	57	54	− 2	SW	4	bc	*	c	*	63	55	—
	Sumburgh Head	29.04	50	SW	3	o	29.23	+.13	46	44	− 6	NNW	4	r	5	r.o	*	53	44	0.23
	Stornoway ...	29.20	51	WNW	4	r	29.54	+.40	49	48	− 1	NNW	5	o	6	rq	0.3	51	43	0.26
	Wick	29.09	52	WNW	5	o	29.42	+.25	47	46	− 6	NW	5	o	4	o.p	*	56	44	0.15
	Nairn	29.21	53	SSW	5	c	29.48	+.26	51	48	0	NW	4	c	3	c	*	57	45	0.12
	Aberdeen ...	29.27	57	SW	5	c	29.46	+.18	50	46	− 8	WNW	5	cpq	3	bcq, c, r	10.6	64	48	0.10
BRITISH ISLANDS.	Leith	29.41	56	W	3	bc	29.51	+.11	54	54	− 3	W	2	o	*	bc	*	61	48	0.06
	Shields	29.51	58	SW	4	c	29.47	−.04	52	50	− 4	W	4	cp	2	c.p	*	62	48	—
	Spurn Head ...	29.59	61	WSW	4	c	29.60	+.02	55	55	− 3	WSW	4	c	4	c	*	63	49	—
	York	29.59	62	W	3	bc	? 29.59	−.02	55	50	− 2	W	4	bc	*	bc	8.8	63	46	—
	Loughborough ...	29.66	61	WSW	3	c	29.72	+.03	54	49	− [illegible]	WNW	4	cqr	*	bc, c, bq	*	68	47	—
	Ardrossan ...	29.47	58	WSW	4	c	29.58	+.11	52	52	− 1	WNW	5	c	4	c	*	60	50	0.01
	Malin Head ...	29.52	52	WSW	7	cq	29.69	+.18	52	48	0	WNW	6	cmq	4	cq	*	54	47	0.24
	Belmullet ...	29.71	54	WNW	4	bc	29.86	+.16	54	53	0	NNW	3	c	*	o.bc	*	56	47	0.10
	Donaghadee ...	29.57	58	W	4	cp	29.75	+.15	53	51	− 2	WNW	6	bc	4	cp	*	62	47	0.03
	Liverpool (Bidston)	29.66	55	WSW	4	bc	29.69	+.04	52	48	− 3	W	7	o	5	bc.p	*	62	50	0.03
	Holyhead ...	29.66	55	SW	4	cp	29.77	+.07	56	52	− 3	WNW	7	bcq	6	cp	*	62	48	0.02
	Parsonstown ...	29.69	56	W	2	bc	? 29.82	+.07	54	50	− 1	NW	1	bc	*	bc.p	8.2	60	44	0.10
	Valencia ...	29.78	55	WSW	3	cp	29.92	+.10	56	51	− 1	WNW	3	bc	4	cp	7.3	58	50	0.13
	Roche's Point ..	29.74	58	NW	4	cp	29.90	+.08	56	51	− 1	NW	3	bc	3	c	*	61	48	0.05
	Pembroke (St. Ann's Hd.)	29.78	59	NW	5	c	29.86	+.07	53	51	− 8	NW	5	b	4	c	7.5	61	50	0.02
	Scilly	29.83	58	W	4	cp	29.90	+.05	57	54	− 1	NNW	4	bc	4	cp	3.3	64	53	0.01
	Prawle Point ...	29.80	57	W	4	c	? 29.90	+.07	55	51	− 1	NW	4	c	3	c	*	60	49	—
	Jersey (St. Aubin's)	29.86	60	W	4	bcm	29.91	+.01	58	54	− 3	WNW	3	o	3	r.bcm	*	61	54	0.13
	Hurst Castle ...	29.75	62	WSW	5	c	29.84	+.04	57	54	− 1	W	4	c	2	c	*	64	53	—
	Dungeness ...	29.70	58	WSW	5	c	29.78	+.02	61	54	+ 2	W	5	bc	4	o.c	*	62	54	0.04
	North Foreland	29.70	64	SW	4	c	29.79	+.03	58	53	− 2	W	5	bc	3	cq	*	67	51	0.49
	London (Brixton) ...	29.70	64	WSW	2	o	29.78	+.01	58	50	− 1	W	4	bc	*	bc, o, b	4.5	71	51	—
	Oxford	29.70	57	WSW	3	o	29.79	+.04	55	49	− 2	W	3	b	*	o	*	67	49	—
	Cambridge ...	29.66	64	WSW	3	o	29.74	+.01	56	50	− 4	W	2	b	*	c.o	4.0	71	49	0.01
	Yarmouth ...	29.63	65	W	3	c	29.67	−.01	57	50	− 4	W	5	b	3	bc, c	*	67	50	0.01
GERMANY & HOLLAND.	Cuxhaven ...	29.66	61	WNW	2	bc	29.54	−.13	59	57	− 5	WSW	5	o	*	p, bc	*	64	52	0.20
	Berlin	29.77	64	SW	1	o	29.65	−.19	65	61	+ 2	W	3	o	*	o	*	75	59	?
	Wiesbaden ...	*	*	*	*	*	29.79	−.19	59	56	− 2	SW	4	o	*	*	*	72	59	—
	Munich... ..	29.95	67	SSE	3	b	29.93	−.17	73	66	+ 11	W	3	bc	*	b	*	75	57	—
	The Helder ...	29.64	62	SW	1	bc	29.63	−.05	57	53	− 5	W	5	o	4	bc	*	66	57	—
BELGIUM.	Brussels ...	*	*	*	*	*	29.78	−.08	57	53	− 3	WSW	4	o	*	r	*	65	53	0.35
	Cape Gris Nez...	29.72	57	WSW	5	o	? 29.75	−.05	55	53	− 2	WNW	5	o	5	o	*	59	54	0.47
	Paris	29.84	70	SW	3	o	29.90	−.07	57	56	− 6	SW	1	c	*	o	*	73	55	0.12
	Brest	29.89	62	W	2	c	29.93	+.01	57	54	− 2	NW	1	c	2	c	*	63	54	—
	Lorient... ...	29.91	60	WNW	5	r	29.94	−.04	59	57	− 2	WNW	3	?	3	r	*	68	57	0.04
FRANCE &	Rochefort ...	29.97	68	NW	3	c	29.96	−.09	64	63	0	NW	4	r	*	o.c	*	75	59	0.63
	Belfort	29.85	74	WSW	5	bc	?	?	65	60	+ 6	W	3	o	*	bc	*	78	59	—
	Lyons	29.85	85	NNE	1	bc	29.92	−.12	75	60	+ 9	SE	1	c	*	bc	*	90	63	—
	Nice	29.95	74	SW	2	bc	29.95	.00	74	64	+ 6	E	0	b	0	bc	*	86	66	—
	Perpignan ...	29.93	77	E	2	b	29.95	−.05	70	66	− 3	SW	1	b	*	b	*	85	58	—
	Biarritz ...	29.95	72	N	3	b	29.98	−.03	66	60	0	N	3	o	2	b	*	77	64	—
PENINSULA.	Corunna ...																*			
	Lisbon	29.90	73	NE	3	b	29.94	+.06	67	61	− 14	N	4	b	*	b	*	90	63	—
	Azores (P. Delgada)	30.22	68	SSE	2	o	30.23	−.02	68	62	+ 1	SSW	1	c	2	o	*	75	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport...10.5hrs;

WEATHER CHARTS

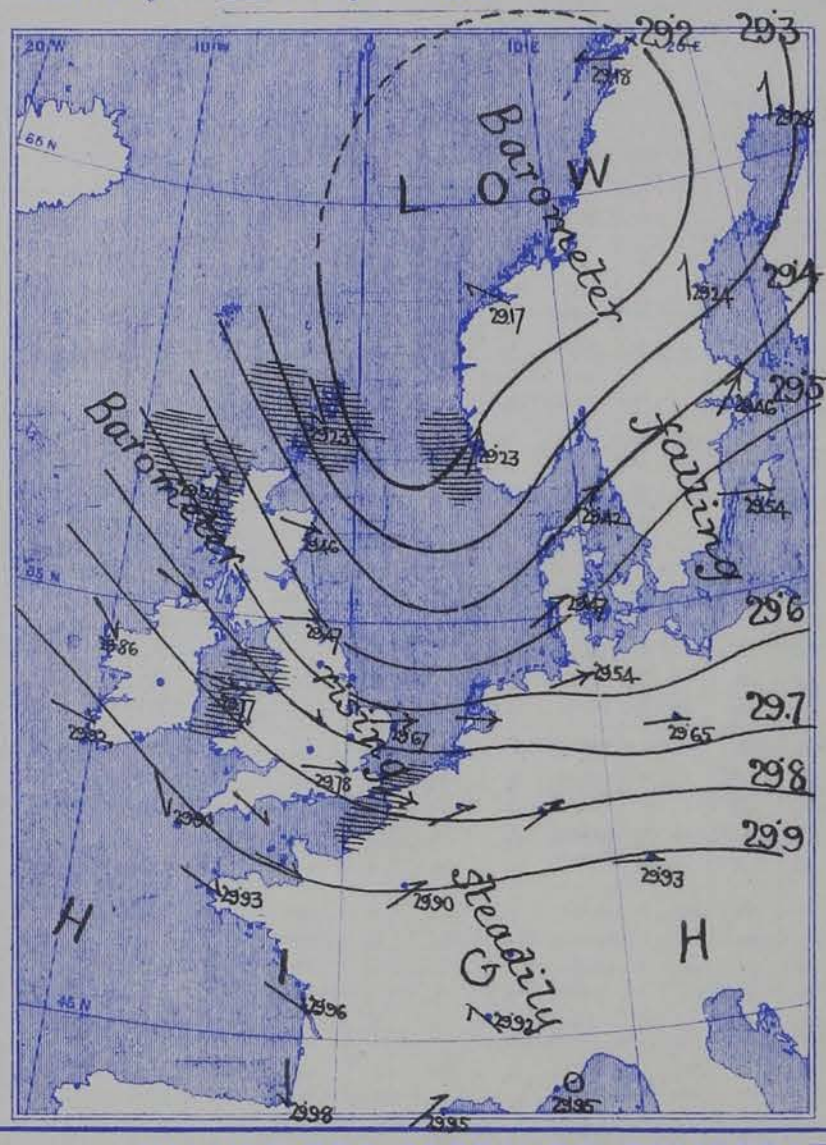
FOR Wednesday, 7th July, 1897.

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

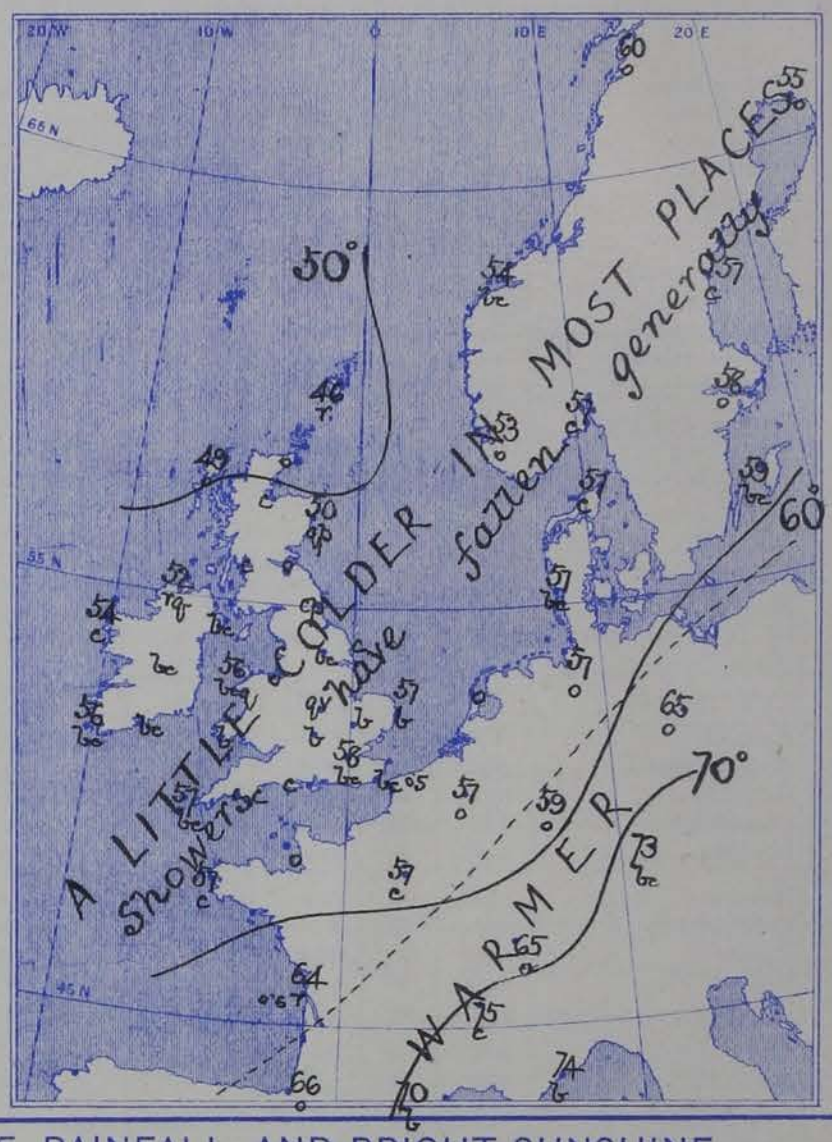
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 29.9 ins. and more over France, the Bay of Biscay and our extreme SW. coast.
Lowest Below 29.2 ins. over Norway and the adjacent parts of the Atlantic.
Gradients still rather steep over our own northwestern districts.
Barometer rising decidedly at our northern and western stations.

TEMPERATURE

Highest 75° to 70° over the southern parts of France, and south Germany, 61° at Dungeness.
Lowest 46° at Sumburgh Hd., 47° at Wick, 49° at Stornoway, 50° at Aberdeen.
The maxima recorded yesterday exceeded 70° at Cambridge and in London; that at Berlin was 75°, at Paris 73°, at Lyons 90°. The night was cool over our Islands generally.

WIND

NW. to W. over our Islands, and strong to a moderate gale in force at our northwestern stations; moderate W. to SW. over France and Germany, SW. over Denmark and the Baltic, but E. in the northwest of Norway.

WEATHER

Cloudy and squally in the N. and NW. of our Islands, fine elsewhere.
Rain again fell in many parts of our Islands yesterday, but except in the extreme N. and NW. and over Belgium the amounts were small. Bright Sunshine recorded yesterday was 10.6 hrs. at Aberdeen and Southport, 8.8 hrs at York, 8.2 hrs. at Parsonstown, 4.5 hrs. in London, and hardly any at Ventnor.

SEA

Rough in the N. and W., rather so in the English Channel.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The wind is likely to decrease in force gradually. Fine weather is probable over England, passing showers at our NW. and most N. stations, and a very cool night generally, with rising barometer.

FORECASTS

For the 24 hours ending at NOON on 8TH JULY 1897.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	NW. to W. breezes, fresh to light, some showers, bright intervals.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	NW. and W. breezes, moderate to light; fine, very cool tonight.
6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	NW. winds, moderating and tending to back again; some showers.
WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.		BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.33	53	48	SW	6	r	4	Valencia	29.80	58	54	WSW	4	cp	4
Sumburgh Head	29.08	51	50	SW	3	r	4	Scilly	29.85	62	59	W	3	o	4
Stornoway	29.16	51	51	WNW	7	r	8	Jersey	29.89	59	59	WNW	3	or	3
Aberdeen	29.28	61	51	WSW	6	bcq	3	Hurst Castle ...	29.79	63	60	WSW	4	c	3
Shields	29.54	62	54	WSW	4	c	2	Dungeness ...	29.76	59	58	WSW	4	o	4
Ardrossan	29.49	60	58	WSW	5	c	4	North Foreland	29.75	65	59	SW	4	c	3
Malin Head ...	29.63	56	51	W	6	bcq	5	London (Westminster)	29.72	69	58	W	2	bc	*
Belmullet	29.71	56	56	WNW	3	o	*	Yarmouth ...	29.68	69	58	W	4	bc	3
Holyhead	29.69	57	53	SW	4	c	3	Rochefort ...	30.01	73	71	W	4	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine and bright over southern and central Europe; cloudy and changeable over the greater part of our Islands, with rain along our south coast, as well as over the northeast of France, and Belgium, showers at some western and northern stations. Dull and very rainy over the northern half of Russia. Showers falling later in the W. and N. of our Islands (about a quarter of an inch over the extreme N. of Scotland and Ireland, but very little elsewhere); a considerable fall over the shores of the E^rn. half of the English Channel, as well as over Belgium and N. Germany.

Temperature fallen considerably over the British Islands, risen over central Europe. Morning readings highest (1) 81° at Lisbon, 80° at Toulon and Nice, and exceeding 70° at many of the stations in Algeria and southern Europe; (2) 67° at Archangel, 62° at Stockholm, 61° at Yarmouth. Lowest 50° to 53° over the N^rn. parts of Scotland and Ireland, 55° in the W. of Norway. Rising later to 90° at Lagos, 86° at Nice, 73° at Paris, 71° in London and at Cambridge, but not touching 60° over the N^rn. half of Scotland.

Wind (1) Moderate from between E. and N. over the Mediterranean and S^rn. Europe; (2) light and anticyclonic over the southern parts of France and Germany, with Switzerland and the south of Russia; (3) fresh to strong from the W^nd. over the British Islands, and from the SW^ld. on the E^rn. shores of the North Sea; moderate to light from between S. and E. over the greater part of N^rn. Europe. Rising to a gale later on our northwestern coasts, and blowing freshly over the eastern parts of England.

Barometer highest (1) 30.1 ins. to 29.9 ins. over all the southern, central and southeastern countries and the Mediterranean; (2) exceeding 29.9 ins. over the Kola Peninsula and N. of Finland. Lowest 29.1 ins. and less in a well marked depression off our extreme N^rn. coasts, and below 29.5 ins. in a smaller system near S^t. Petersburg. Beginning to rise later over the NW^rn. parts of the British Islands as the N^rn. depression moved NE^wds.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Thursday 8th July, 1897.

Issued by the Meteorological Office, 63 Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.33	54	L	0	c	29.19	− ·09	62	56	+ 7	SE	3	0	*	c	*	62	50	0.32
	Hernösand ...	29.23	55	S	2	bc	29.28	+ ·04	59	51	+ 2	W	2	bc	*	bc	*	63	54	—
	Stockholm ...	29.39	56	SW	4	r	29.47	+ ·01	57	50	− 1	SW	4	f	*	r	*	66	54	—
	Wisby	29.51	56	W	8	c	29.69	+ ·15	55	50	− 4	WSW	9	b	*	c	*	63	52	—
	Karlstad ...	29.33	54	SW	4	r	29.46	+ ·08	55	49	− 1	SW	6	0	*	r	*	*	*	0.04
	Bodö	29.13	52	L	0	c	29.17	− ·01	50	49	− 10	SW	4	0	2	c	*	60	48	—
	Christiansund ...	29.20	59	L	0	bc	29.32	+ ·15	52	51	− 2	E	2	bc	3	bc	*	59	50	0.[illegible]
	Skudesnaes ...	29.44	50	NW	8	0	29.58	+ ·35	50	47	− 3	WNW	7	0	5	0	*	52	48	*
	Færder (Christiania Fjord)	29.27	57	SW	6	0	29.47	+ ·11	53	51	− 4	WSW	7	0	4	0	*	59	53	0.16
	Skagen (The Scaw)	29.46	53	W	8	bc	29.63	+ ·21	54	48	− 3	W	8	0	3	bc	*	59	48	0.12
	Fanö	29.67	53	W	6	c	29.80	+ ·33	55	50	− 2	W	6	c	*	c	*	61	52	0.08
BRITISH ISLANDS.	Sumburgh Head	29.36	45	WNW	4	0	29.57	+ ·34	47	44	+ 1	WNW	3	c	4	r.0	*	49	43	0.08
	Stornoway ...	29.67	53	NW	4	c	29.63	+ ·09	51	51	+ 2	WSW	4	r	4	c	11.5	54	43	0.03
	Wick	29.57	46	NW	6	0	29.66	+ ·24	53	51	+ 6	NW	2	c	2	0	*	54	39	0.05
	Nairn	29.64	52	WNW	4	bc	29.68	+ ·20	53	51	+ 2	W	1	c	1	bc	*	56	38	—
	Aberdeen ...	29.65	52	NW	5	c	29.74	+ ·28	56	49	+ 6	SW	2	c	1	pq, c	8.3	57	41	0.03
	Leith	29.69	58	W	3	b	29.77	+ ·26	56	53	+ 2	SW	3	0	*	b	*	64	42	—
	Shields	29.71	58	W	3	bc	29.85	+ ·38	52	50	0	WSW	3	c	2	ep, bc	*	59	43	0.08
	Spurn Head ...	29.74	59	NW	6	bc	29.89	+ ·29	59	58	+ 4	SW	3	bc	3	bc	*	60	49	—
	York	29.76	60	W	3	c	29.90	+ ·31	56	52	+ 1	WSW	1	c	*	c	10.2	63	44	—
	Loughborough ...	29.82	62	NW	4	b	29.95	+ ·23	59	53	+ 5	SW	2	b	*	eq, bc, b	*	64	42	—
	Ardrossan ...	29.76	57	W	4	b	29.78	+ ·20	52	52	0	SW	4	0	3	bc, b	*	57	48	—
	Malin Head ...	29.79	53	W	4	cp	29.71	+ ·02	51	50	− 1	S	5	0	3	cp	*	56	48	0.02
	Belmullet ...	29.90	56	W	2	c	29.80	− ·06	55	55	+ 1	SSW	4	or	*	b, c	*	60	50	0.12
	Donaghadee ...	29.82	54	NW	5	c	29.84	+ ·09	53	50	0	SW	5	c	3	c	*	63	42	0.32
	Liverpool (Bidston)	29.83	59	W	5	b	29.91	+ ·22	58	55	+ 6	WSW	1	b	2	b	*	59	51	—
	Holyhead ...	29.87	55	SW	3	bc	29.91	+ ·14	57	54	+ 1	SW	2	cw	1	b, bcp	*	62	49	0.01
	Parsonstown ...	29.87	61	W	1	bc	29.88	+ ·06	53	51	− 1	S	1	or	*	bc	11.7	63	43	—
	Valencia ...	29.94	57	W	3	bc	29.91	− ·01	57	54	+ 1	S	4	0	4	bc	12.6	58	49	—
	Roche's Point ..	29.90	58	W	2	p	29.95	+ ·05	57	54	+ 1	WSW	3	c	3	p	*	61	52	0.02
	Pembroke (St. Ann's Hd.)	29.93	58	WNW	4	b	29.95	+ ·02	56	54	+ 3	NW	2	b	2	b	15.0	?58	?53	—
	Scilly	29.95	60	W	1	c	29.97	+ ·07	59	52	+ 2	W	1	b	1	c	14.3	64	51	—
	Prawle Point ...	29.92	57	W	4	bc	30.00	+ ·10	59	54	+ 4	WSW	1	b	0	bc	*	61	46	—
	Jersey (St. Aubin's)	29.95	60	NW	3	b	29.99	+ ·08	64	57	+ 6	ENE	3	b	3	c, b	*	64	46	—
	Hurst Castle ...	29.89	61	WSW	4	bc	29.99	+ ·15	62	58	+ 5	NE	1	bw	1	c, bc	*	67	48	—
	Dungeness ...	29.85	60	WSW	5	bc	29.97	+ ·19	63	56	+ 2	ENE	1	bc	1	bc	*	67	44	—
	North Foreland	29.86	62	NW	2	0	30.00	+ ·21	61	53	+ 3	E	2	b	2	bc, 0	*	66	50	—
	London (Brixton) ...	29.85	66	NW	2	bc	29.99	+ ·21	60	52	+ 2	SW	1	b	*	bc, b	11.7	69	44	—
	Oxford	29.89	57	WNW	2	b	29.98	+ ·19	59	51	+ 4	S	1	b	*	b	*	65	43	—
	Cambridge ...	29.84	63	NW	1	c	29.98	+ ·24	58	53	+ 2	SW	2	b	*	c	11.2	66	39	—
	Yarmouth ...	29.79	62	WNW	4	b	29.95	+ ·28	59	53	+ 2	W	2	b	2	b	*	63	45	—
GERMANY & HOLLAND.	Cuxhaven ...	29.72	58	W	5	c	29.88	+ ·34	53	51	− 4	WSW	2	0	*	c, r	*	59	50	0.47
	Berlin	29.84	60	SSW	1	b	29.96	+ ·31	58	54	− 7	SW	1	c	*	bc	*	66	52	0.05
	Wiesbaden ...	*	*	*	*	*	30.01	+ ·22	59	59	0	SW	1	0	*	*	*	64	57	0.20
	Munich... ..	30.03	60	L	0	0	30.03	+ ·10	59	58	− 14	SW	3	0	*	0	*	79	55	0.39
	The Helder ...	29.80	58	W	5	0	29.95	+ ·32	57	51	0	W	3	b	2	0	*	61	57	—
BELGIUM.	Brussels ...	*	*	*	*	*	30.01	+ ·23	58	54	+ 1	WSW	1	b	*	b	*	66	46	0.08
	Cape Gris Nez...	29.85	57	W	5	bc	29.95	+ ·20	58	54	+ 3	ESE	1	b	1	bc	*	59	50	—
	Paris	29.94	62	W	1	0	30.00	+ ·10	59	53	+ 2	NE	2	b	*	0	*	68	54	—
	Brest	29.93	59	NW	1	0	29.95	+ ·02	56	53	− 1	NNE	1	c	1	0	*	63	50	—
	Lorient... ...	29.94	59	SE	1	r	29.91	− ·03	54	54	− 5	ENE	5	r	4	r	*	64	52	0.55
FRANCE &	Rochefort ...	29.92	68	NNW	3	0	29.89	− ·07	63	63	− 1	SE	3	0	*	0	*	77	61	—
	Belfort	29.92	63	ESE	2	0	29.94	?	55	54	− 10	E	4	bc	*	0	*	75	53	0.35
	Lyons	29.89	73	NNE	1	r	29.97	+ ·05	64	60	− 11	NNE	2	r	*	rtl	*	93	58	0.04
	Nice	29.93	75	SW	1	b	29.91	− ·04	78	?	+ 4	L	0	b	0	b	*	82	64	?
	Perpignan ...	29.87	75	NE	2	0	29.90	− ·05	69	67	− 1	SE	1	0	*	0	*	82	61	—
	Biarritz ...	29.90	68	N	3	0	29.91	− ·07	65	64	− 1	L	0	0	2	0	*	72	61	0.12
PENINSULA.	Corunna ...																*			
	Lisbon	29.93	66	N	5	b	29.95	+ ·01	68	62	+ 1	N	5	b	*	b	*	77	63	—
	Azores (P. Delgada)	30.21	68	SSW	4	0	30.18	− ·05	68	62	0	SSW	4	c	3	0	*	75	66	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 6.9 hrs;

WEATHER CHARTS

FOR Thursday, 8th July, 1897.

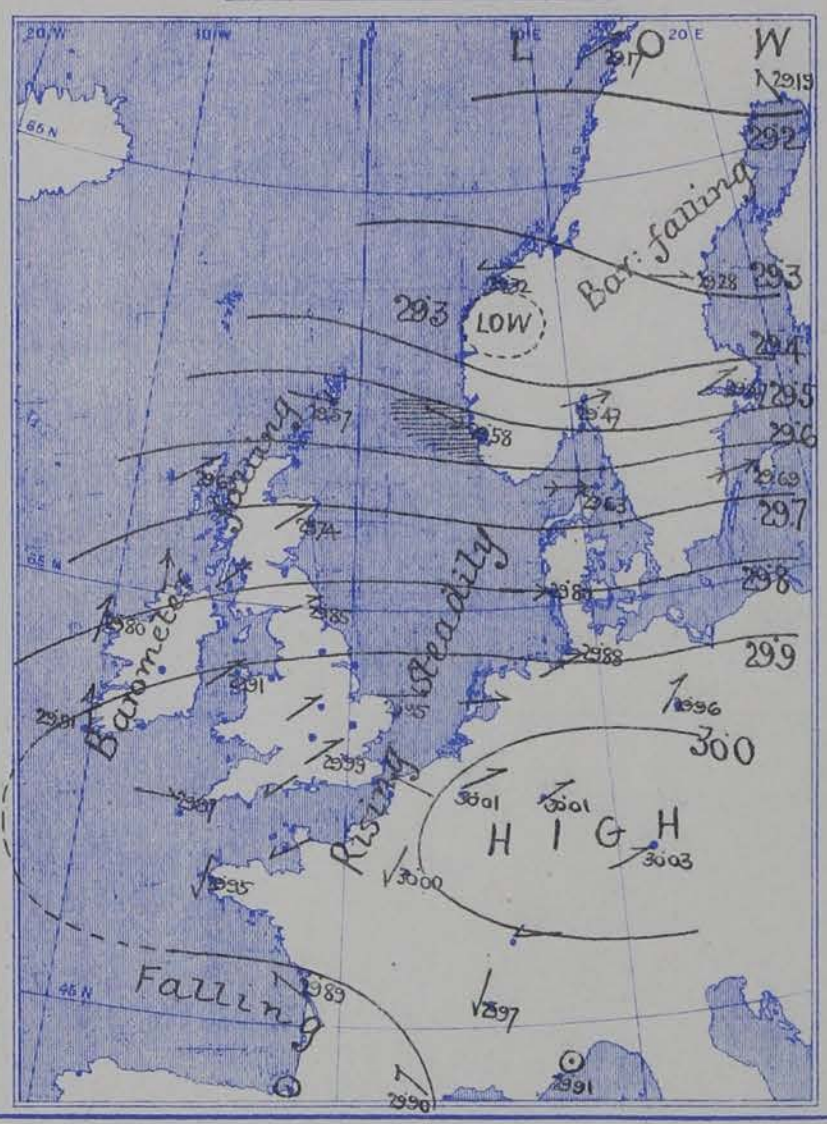
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

SEA—Rough ; *High*

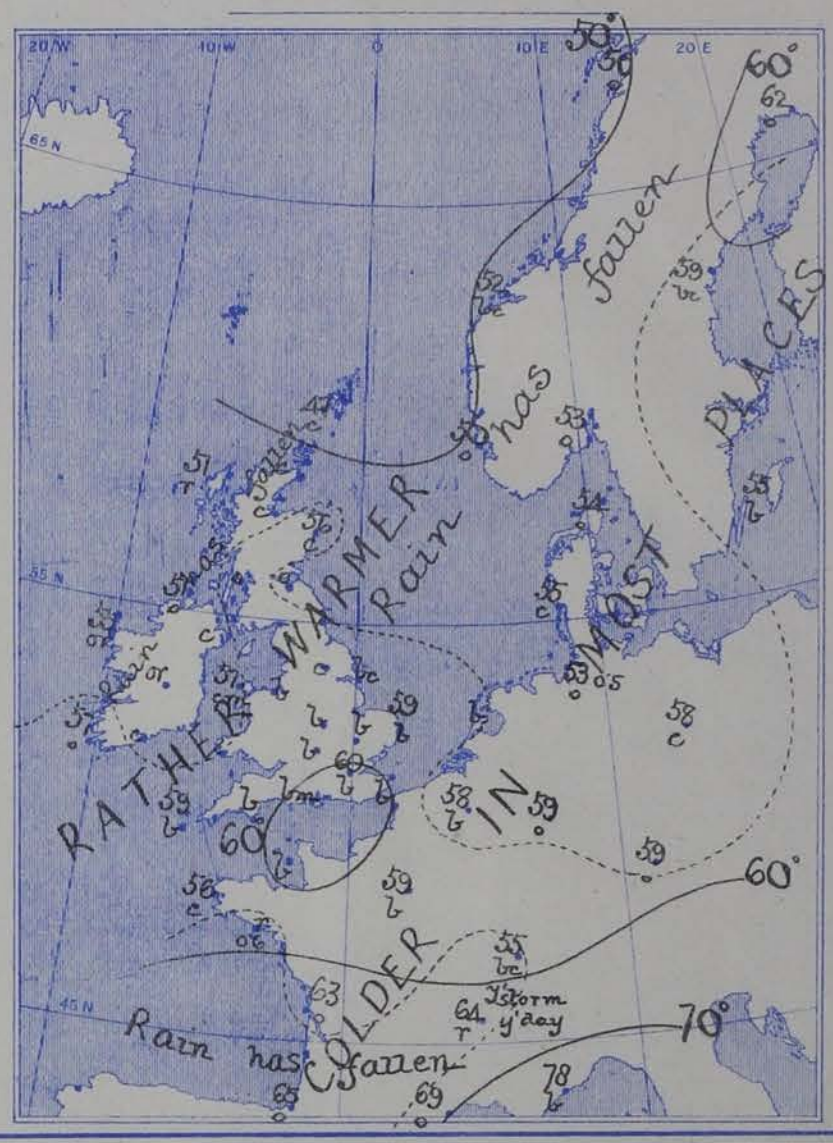


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.0 ins. and more to 29.9 ins. over Germany, France and the S.W. parts of England and Ireland.
Lowest 29.2 ins. to 29.5 ins. over Lapland, and about 29.3 ins. in a small depression over the southern half of Norway. (Reports from the more northern stations
Gradients slight over our Islands and France.
Barometer still rising in the east, but had begun to fall somewhat in the far W. and NW.

TEMPERATURE

Highest 78° at Nice, 70° to 63° at the other stations in the S. and SW. of France; 63° to 60° over the SE. of England, and 62° at Haparanda.
Lowest 47° at Sumburgh Hd., 51° at Stornoway and Malin Hd.; 50° to 52° along the W. coast of Norway.
It fell during the night to between 39° and 44° in the Screen over our inland counties, and to between 34° and 36° on the grass.

WIND

(1) W. and strong on the Danish coast and in the south of Norway, but light from E. at Christiansund,
(2) SW. to S. over the greater part of our Islands — light at the English stations, fresh in Ireland and the W. of Scotland; (3) Light from E. and NE. over France.
The NW. and W. gales reported in the NW. of our Islands yesterday morning died down during the day.

WEATHER

(1) Dull in Ireland and the west of Scotland, with rain in some places.
(2) Very fine over England and the E. of Scotland, as well as over the Netherlands & N. of France.
(3) Rainy at Lorient and Lyons.
Slight rain has fallen in our N. and W. districts but not over England as a whole. Thunder-showers have occurred in various parts of France and Germany. Bright sunshine recorded yesterday was very considerable over England and Wales. (15 hours at Pembroke).

SEA

Moderate in the N, slight in the NW., smooth in the S. and E.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Fine and very warm weather is probable over England, but cool weather, and some showers, over Ireland, Scotland and Norway.

FORECASTS

For the 24 hours ending at NOON on 9TH JULY 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S. and SW. winds, freshening; some rain.	6 SCOTLAND WEST	Same as No. 0.
1 SCOTLAND EAST	SW. breezes, light to moderate; fair as a whole, warmer.	7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	SW. winds, moderate; fair.
3 ENGLAND EAST	SW. breezes, moderate or light; fine, warmer.	9 IRELAND NORTH	S. and SW. winds, showery in the west, fair in the east.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	None issued

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.21	52	50	WNW	8	o	6
Sumburgh Head	29.32	48	45	NW	4	r	5
Stornoway	29.63	54	54	NNW	5	c	6
Aberdeen	29.51	54	48	NW	6	cpq	3
Shields	29.65	53	52	WSW	1	op	2
Ardrossan	29.72	54	53	W	5	bc	4
Malin Head ...	29.78	55	52	WNW	5	c	2
Belmullet	29.94	57	57	W	2	b	*
Holyhead	29.85	61	56	WSW	4	b	3
Valencia	29.95	58	52	WSW	4	bc	4
Scilly	29.95	62	54	W	2	c	3
Jersey	29.96	61	54	NW	3	c	3
Hurst Castle ...	29.68	65	59	SW	4	c	2
Dungeness ...	29.83	62	57	WSW	6	bc	4
North Foreland	29.83	65	55	NW	1	bc	3
London (Westminster)	29.83	64	54	WNW	3	bc	*
Yarmouth ...	29.76	61	53	WNW	5	bc	3
Rochefort ...	29.97	75	70	ESE	1	o	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning changeable and unsettled over the northern parts of the British Islands and continental Europe, with squalls and showers in places; dull over Germany, and the N^rn. half of France, rainy at Rochefort; fine and bright over the greater part of England, as well as over the S^rn. parts of Spain, the Mediterranean and S.E^rn. Europe. Some rain later over the N^rn. districts (0.32 in. at Haparanda) and rather more over several parts of Germany and France, with thunder and lightning locally.

Temperature showing a further decrease over the British Islands, and a great decrease at Lisbon and an increase over S^rn. and central Europe. Morning readings highest 78° at La Calla and Trieste, 81° at Leghorn, and exceeding 70° at most of the stations in S^rn. Europe; 69° to 65° over the E^rn. parts of N. Germany. Not touching 70° in any part of our Islands later; reaching 66° at Berlin, 68° at Paris, 82° at Nice, and 93° at Lyons. Succeeding night cold over England.

Wind (1) Light and anticyclonic over the SW^rn., S^rn. and SE^rn. parts of Europe; (2) moderate to very strong over the more N^rn. countries — from NW and W. over our Islands, from W. over the Netherlands, from SW. and SSW. over Denmark, the Baltic and Sweden, and light from the E^wd. in the NW. of Norway. Subsiding steadily in the British Islands later and beginning to back a little in the W. of Ireland.

Barometer Highest 30.0 ins. and more to 29.9 ins. over the S^rn. countries and the extreme SW. of our Islands generally. Lowest below 29.2 ins. in a complex depression covering Norway and the adjacent parts of the Atlantic. Gradients rather steep for W^ly and NW^ly winds over the British Islands, moderate for SW^ly over Sweden and the E^rn. shores of the North Sea. Rising decidedly over almost the whole of the United Kingdom and North Sea all day, but beginning to fall again in the W. of Ireland at night.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Friday 9th July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.23	54	E	0	c	29.36	+ .17	56	54	− 6	SW	2	b	*	c	*	63	48	—
	Hernösand ...	29.42	59	W	2	bc	29.58	+ .30	57	49	− 2	NW	2	bc	*	bc	*	68	46	—
	Stockholm ...	29.63	57	WSW	6	o	29.73	+ .46	58	51	+ 1	SW	6	b	*	o	*	63	50	0.04
	Wisby	29.78	57	W	10	b	29.88	+ .19	54	49	− 1	WNW	10	b	*	b	*	61	50	—
	Karlstad ...	29.61	57	WSW	6	b	29.73	+ .27	56	48	+ 1	W	2	b	*	b	*	*	*	—
	Bodö	29.29	49	ESE	6	o	29.36	+ .19	45	45	− 5	WSW	7	r	4	o	*	50	45	0.35
	Christiansund ...	29.57	51	WSW	4	r	29.65	+ .23	53	47	+ 1	WSW	5	c	3	r	*	59	48	—
	Skudesnaes ...	29.77	52	W	4	o	29.71	+ .13	52	51	+ 2	SSW	4	r	4	o	*	54	46	*
	Færder (Christiania Fjord)	29.62	58	WSW	7	b	29.71	+ .24	54	51	+ 1	WSW	6	o	4	b	*	59	53	—
	Skagen (The Scaw)	29.87	54	W	7	bc	29.82	+ .19	53	51	− 1	SW	2	o	0	bc	*	59	50	—
	Fanö	29.90	54	W	4	bc	29.88	+ .08	55	53	0	SW	4	o	*	bc	*	61	54	0.04
	Sumburgh Head	29.56	51	SW	2	o	29.55	− .02	53	51	+ 6	W	2	bc	4	c,o	*	55	46	0.03
	Stornoway ...	29.47	54	SW	4	o	29.62	− .01	55	53	+ 4	WSW	4	o	5	r,o	0.4	55	48	0.05
	Wick	29.53	53	S	6	o	29.64	− .02	56	55	+ 3	W	4	bcv	4	o	*	62	50	0.08
	Nairn	29.53	56	E	0	r	29.65	− .03	57	55	+ 4	WNW	2	bc	2	r	*	57	50	0.04
	Aberdeen ...	29.64	53	S	4	orgq	29.68	− .06	61	54	+ 5	W	2	bc	1	orgq	4.9	61	51	0.19
BRITISH ISLANDS.	Leith	29.71	57	WSW	3	o	29.72	− .05	60	56	+ 4	SW	3	bc	*	o	*	60	52	—
	Shields	29.80	56	SW	2	ow	29.72	− .13	59	58	+ 7	WSW	3	c	2	c,ow	*	62	50	0.03
	Spurn Head ...	29.87	60	WSW	4	c	29.86	− .03	60	60	+ 1	SW	4	o	4	c	*	66	52	—
	York	29.87	59	WSW	1	o	29.83	− .07	60	56	+ 4	W	3	c	*	o	2.4	63	52	0.11
	Loughborough ...	29.92	60	W	1	o	29.91	− .04	61	57	+ 2	WSW	3	cm	*	bc,op,c	*	67	53	0.01
	Ardrossan ...	29.66	53	S	5	r	29.77	− .01	54	53	+ 2	SW	1	o	2	r	*	54	50	0.03
	Malin Head ...	29.55	54	SSW	6	d	29.78	+ .07	54	53	+ 3	W	4	o	2	d	*	54	50	0.22
	Belmullet ...	29.69	56	WSW	5	or	29.85	+ .05	55	54	0	WNW	2	c	*	or	*	56	52	0.66
	Donaghadee ...	29.73	54	SW	5	r	29.82	− .02	58	57	+ 5	W	3	c	2	r	*	58	52	0.38
	Liverpool (Bidston)	29.90	53	SW	3	r	29.87	− .04	59	54	+ 1	SW	3	o	2	b,r	*	61	51	0.22
	Holyhead ...	29.87	53	SW	6	rgm	29.87	− .04	56	55	− 1	SW	4	ogm	3	gm,rgm	*	58	51	0.63
	Parsonstown ...	29.78	57	S	2	o	29.89	+ .01	59	56	+ 6	W	1	c	*	or	0.0	59	52	0.27
	Valencia ...	29.85	59	SW	4	o	29.96	+ .05	59	58	+ 2	SW	3	odm	3	og,o	0.1	59	56	0.03
	Roche's Point ..	29.89	57	SW	5	or	29.95	.00	58	56	+ 1	WSW	3	o	3	or	*	59	55	—
	Pembroke (St. Ann's Hd.)	29.95	57	W	5	o	29.96	+ .01	58	57	+ 2	W.	5	cp	4	o	7.5	59	56	0.01
	Scilly	30.01	62	WSW	3	bo	30.03	+ .06	62	59	+ 3	WSW	3	c	3	bc	13.8	64	52	—
	Prawle Point ...	30.01	58	W	2	bc	30.05	+ .05	58	56	− 1	WSW	4	bc	3	bc	*	60	53	—
	Jersey (St. Aubin's)	30.00	62	NNW	3	og	30.09	+ .10	63	56	− 1	NW	2	b	2	og	*	67	54	—
	Hurst Castle ...	29.99	63	SW	2	c	30.04	+ .05	61	59	− 1	WSW	3	c	2	c	*	67	58	—
	Dungeness ...	29.97	61	SW	3	c	30.01	+ .04	59	57	− 4	WSW	4	o	3	c	*	65	57	—
	North Foreland	29.99	61	SSE	3	o	30.02	+ .02	59	54	− 2	SW	3	og	2	o	*	65	54	—
	London (Brixton) ...	29.95	66	SSW	2	o	30.00	+ .01	60	55	0	SW	2	o	*	bc,o,p	10.4	72	55	0.01
	Oxford	29.96	60	WSW	2	o	29.98	.00	57	54	− 2	SW	3	r	*	o	*	67	55	0.02
	Cambridge ...	29.94	59	WSW	1	o	29.94	− .04	62	57	+ 4	SSW	5	c	*	o	10.3	71	54	—
	Yarmouth ...	29.93	61	S	4	c	29.93	− .02	60	55	+ 1	W	4	bc	2	bc,c	*	62	54	0.02
GERMANY & HOLLAND.	Cuxhaven ...	29.97	59	W	3	b	29.91	+ .03	57	53	+ 4	S	3	o	*	b	*	61	50	0.08
	Berlin	30.00	66	WNW	1	b	30.06	+ .10	62	54	+ 4	SSW	1	o	*	b	*	72	55	—
	Wiesbaden ...	*	*	*	*	*	30.12	+ .11	57	55	− 2	SE	2	bc	*	*	*	72	50	—
	Munich... ..	30.09	58	SE	2	r	30.25	+ .22	60	60	+ 1	?	?	c	*	r	*	64	57	0.39
	The Helder ...	29.97	60	SW	1	bc	29.93	− .02	58	55	+ 1	W	3	r	3	bc	*	64	55	—
BELGIUM.	Brussels ...	*	*	*	*	*	30.06	+ .05	60	54	+ 2	SW	3	o	*	o	*	71	55	—
	Cape Gris Nez...																*			
	Paris	29.99	70	S	1	c	30.08	+ .08	64	61	+ 5	S	1	bc	*	c	*	73	55	—
	Brest	30.05	63	N	2	b	30.10	+ .15	56	51	0	NE	1	b	0	b	*	66	46	—
	Lorient... ...	29.97	61	NE	4	f	30.08	+ .17	58	57	+ 4	NE	3	o	2	f	*	68	54	0.08
FRANCE &	Rochefort ...	29.95	72	W	3	b	30.04	+ .15	66	65	+ 3	S	3	b	*	b	*	79	63	—
	Belfort	30.01	59	E	1	m	30.10	+ .16	57	57	+ 2	E	0	f	*	m	*	63	54	0.51
	Lyons	29.96	71	NW	1	c	30.09	+ .12	66	63	+ 2	NNW	1	b	*	c	*	78	58	0.24
	Nice	29.91	75	W	3	bc	30.00	+ .09	75	64	− 3	E	0	b	0	bc	*	84	68	—
	Perpignan ...	29.99	71	W	2	t	30.04	+ .14	73	67	+ 4	SW	2	b	*	t	*	76	60	0.08
	Biarritz ...	29.98	70	WSW	3	o	30.07	+ .16	65	63	0	NW	3	o	2	o	*	70	61	—
PENIN-SULA.	Corunna ...																*			
	Lisbon	29.99	65	NNW	4	b	30.01	+ .06	67	61	− 1	NNW	4	b	*	b	*	77	63	—
	Azores (P. Delgada)	30.19	68	S	4	o	30.19	+ .01	71	68	+ 3	SSW	3	c	3	o	*	73	66	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 5.0 hrs;

WEATHER CHARTS

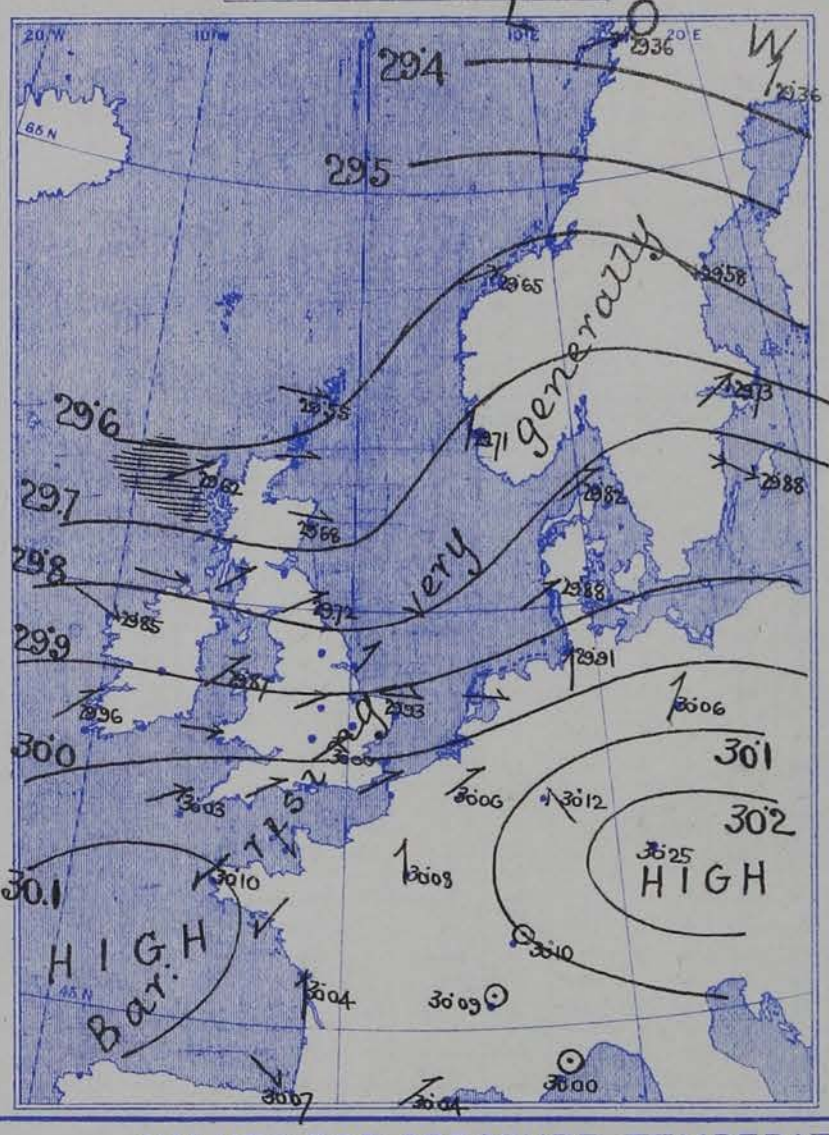
FOR *Friday, 9th July,* 1897.

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

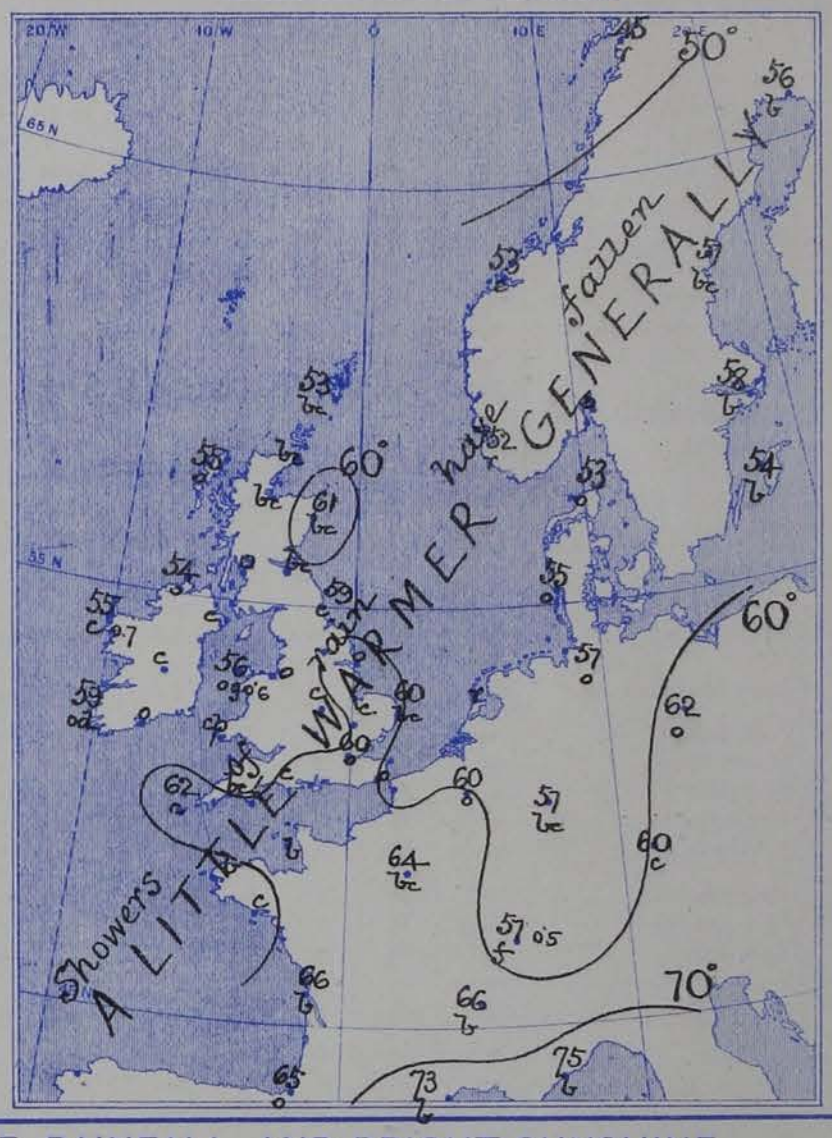
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(*Inches.*)	°	°	°	°	°		°		(*Inches.*)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 73	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.25 ins. at Munich and exceeding 30.0 ins. over the whole of the Bay of Biscay, France, and nearly the whole of Germany.
Lowest Below 29.4 ins. over Lapland, and rather below 29.6 ins. over the Shetland Islands.
Gradients slight – especially over France.
Barometer rising over our Islands generally.

TEMPERATURE

Highest 75° at Nice, 69° at Lisbon, 66° at Rochefort, 64° at Paris, 61° at Aberdeen, 60° in London and at York, 58° at Stockholm.
Lowest 45° at Bodö, 53° at Sumburgh Hd. and the Scaw.
The highest of the maxima recorded over England yesterday ranged from 67° to 72°; at Berlin the maximum was 72° at Paris, at Nice 84°. Last night was warm generally.

WIND

W.ly to SW.ly over our Islands and their neighbourhood and of moderate force.
Very light and anticyclonic over France and Germany.

WEATHER

Fine over France, Germany and our own E.rn and N.E.rn districts, cloudy elsewhere, with slight rain in a few places.
Considerable falls of rain are reported from Holyhead, Munich and Belfort, and showers from the N.rn and W.rn districts generally. Bright Sunshine recorded yesterday was slight in the N. and over Ireland, at Pembroke, however, it was 7.5 hrs. at Cambridge and in London more than 10 hours, and at Scilly 13.8 hrs.

SEA

rather rough in the Minch, moderate in the N. and W. generally, slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No important change of weather is indicated at present.

FORECASTS

For the 24 hours ending at NOON on 10TH JULY 1897.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W.ly and SW.ly breezes, moderate, some passing showers.
1 SCOTLAND EAST	SW.ly breezes, moderate; fair.
2 ENGLAND N.E.	
3 ENGLAND EAST	SW.ly breezes, light; fine as a whole, warm.
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Same as No. 0.
7 ENGLAND N.W.	Same as Nos. 1 and 2.
8 ENGLAND S.W.	
9 IRELAND NORTH	SW.ly breezes, moderate, some showers in the west, fine in the east.
10 IRELAND SOUTH	
WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.73	53	47	WNW	6	c	5
Sunburgh Head	29.60	52	49	WNW	2	c	4
Stornoway	29.49	53	53	SSW	6	r	7
Aberdeen	29.70	54	49	SW	4	ogr	2
Shields	29.81	61	55	SW	3	c	2
Ardrossan	29.72	54	53	S	5	r	4
Malin Head ...	29.63	54	54	SSW	5	r	4
Belmullet	29.68	55	55	SW	5	or	*
Holyhead	29.91	55	53	SW	3	og	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.86	58	56	S	4	og	2
Scilly	30.01	63	55	WSW	4	bc	1
Jersey	29.99	66	56	ENE	2	o	2
Hurst Castle ...	30.00	65	60	WSW	2	bc	2
Dungeness ...	29.97	64	59	SSW	2	c	2
North Foreland	30.00	64	56	SE	3	b	3
London (Westminster)	29.95	70	57	WSW	3	bc	*
Yarmouth ...	29.94	61	55	SSE	5	bc	3
Rochefort ...	29.95	75	75	SW	2	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine and bright over the Mediterranean, S^rn. and E^rn. Europe, as well as over almost the whole of England and many parts of Scandinavia; cloudy or overcast elsewhere, with rain in several parts of Ireland, as well as at Lorient and Lyons. Considerable rain later in the N. of Ireland, and N. Wales, as well as at Bodö on the one hand and Belfort on the other.

Temperature rising over our Islands, after a cold night. Morning readings highest 85° at Trieste, and 80° or more at Athens, Patras, Cagliari and Leghorn, 82° at La Calle, and considerably above 70° over the Mediterranean generally; 67° at Moscow, 60° to 63° over the SE^rn. counties of England. Rising later to between 67° and 72° over England, to 72° at Berlin, 73° at Paris, 79° at Rochefort, and 84° at Nice.

Wind light to very variable (anticyclonic) over W^rn., central and E^rn. Europe, S^ly. to W^ly.; and strong in places, over Finland, the Baltic and Scandinavia; S^ly. and SW^ly. over the British Islands, and blowing briskly in the W. and N. of Ireland. Veering a little on our NW^rn. coasts later and blowing rather strongly in those regions. No great change elsewhere.

Barometer in morning highest 30.1 ins. and more over the S. of Russia, and exceeding 30.0 ins. over all but the N^rn. and NW^rn. counties. Lowest below 29.2 ins. over Lapland, and below 29.6 ins. over the Shetlands. Slight local disturbances over Norway and some parts of France. Falling rather decidedly over the NW. of our Islands later, rising over Scandinavia, the Baltic and eastern shores of the North Sea.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Saturday 10th July 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.48	53	W	2	bc	29.64	+ .28	54	52	− 2	W	4	b	*	bc	*	64	50	—
	Hernösand ...	29.69	57	Z	0	b	29.78	+ .20	59	51	+ 2	NW	2	o	*	b	*	68	50	—
	Stockholm ...	29.87	57	WSW	4	b	29.85	+ .12	60	55	+ 2	SW	2	b	*	b	*	68	50	—
	Wisby	29.91	55	WSW	6	o	29.89	+ .01	58	55	+ 4	NW	4	o	*	o	*	59	48	—
	Karlstad ...	29.78	57	SW	2	b	29.86	+ .13	54	51	− 2	W	2	o	*	b	*	*	*	—
	Bodö	29.61	48	SW	6	o	29.62	+ .26	50	48	+ 5	SW	6	c	4	o	*	50	43	0.39
	Christiansund ...	29.71	54	WSW	3	r	29.81	+ .16	52	49	− 1	WSW	5	r	3	r	*	57	50	0.08
	Skudesnaes ...	29.84	54	S	2	r	30.00	+ .29	54	50	+ 2	WNW	4	o	3	o.rf	*	55	48	*
	Færder (Christiania Fjord)	29.76	59	SW	5	b	29.84	+ .13	60	54	+ 6	SW	1	c	2	b	*	60	54	—
	Skagen (The Scaw)	29.84	55	WNW	1	c	29.88	+ .06	58	54	+ 5	NW	3	bc	0	c	*	61	50	0.04
	Fanö	29.95	56	W	6	c	30.05	+ .17	56	53	+ 1	NW	4	c	*	c	*	59	54	0.16
BRITISH ISLANDS.	Sumburgh Head	29.72	52	W	3	o	29.96	+ .41	52	50	− 1	W	3	o	4	bc.o	*	57	48	0.01
	Stornoway ...	29.84	56	WNW	4	o	30.11	+ .49	54	53	− 1	W	3	o	3	cq,o	7.2	59	49	—
	Wick	29.90	52	NW	4	bc	30.11	+ .47	56	54	0	NW	5	o	2	bc	*	62	50	—
	Nairn	29.84	59	NW	2	bc	30.12	+ .47	57	54	0	W	2	bc	1	bc	*	64	50	—
	Aberdeen ...	29.87	58	NE	2	c	30.16	+ .48	59	51	− 2	W	2	bc	1	c	6.4	67	45	—
	Leith	29.91	61	W	3	o	30.17	+ .45	57	52	− 3	W	2	c	*	o	*	67	48	—
	Shields	29.92	63	W	3	bc	30.17	+ .45	54	51	− 5	W	3	b	2	bc	*	67	48	—
	Spurn Head ...	29.97	62	W	3	c	30.18	+ .32	59	57	− 1	WNW	2	b	2	c	*	69	54	—
	York	29.97	65	W	1	bc	30.21	+ .38	58	52	− 2	NNW	1	b	*	bc	3.6	68	51	—
	Loughborough ...	30.01	65	W	2	o	30.21	+ .30	63	58	+ 2	WNW	1	bmw	*	cq,o,cm	*	75	49	—
	Ardrossan ...	29.96	57	W	2	c	30.20	+ .43	57	55	+ 3	W	2	b	1	c	*	61	51	—
	Malin Head ...	29.98	55	W	4	c	30.20	+ .42	54	51	0	WNW	2	og	2	cp	*	58	51	—
	Belmullet ...	30.07	57	WNW	1	o	30.25	+ .40	59	59	+ 4	WSW	1	o	*	o	*	60	52	—
	Donaghadee ...	30.00	58	N	3	bc	30.25	+ .43	56	52	− 2	W	3	m	1	bc	*	68	48	—
	Liverpool (Bidston)	30.01	59	W	1	o	30.24	+ .37	57	51	− 2	NNW	1	c	1	o	*	64	55	—
	Holyhead ...	30.01	60	WSW	2	c	30.25	+ .38	57	55	+ 1	N	2	b	1	gdm,c	*	62	52	—
	Parsonstown ...	30.03	65	W	1	b	30.26	+ .37	57	53	− 2	Z	0	o	*	b	5.2	66	53	—
	Valencia ...	30.10	60	WNW	2	bv	30.26	+ .30	59	55	0	NNE	1	bc	2	c,bv	6.3	62	53	—
	Roche's Point ..	30.04	62	WSW	3	o	30.27	+ .32	57	53	− 1	NNW	2	b	2	o	*	64	50	—
	Pembroke (St. Ann's Hd.)	30.05	59	W	4	o	30.23	+ .27	57	56	− 1	ESE	3	f	3	o	1.6	60	54	—
	Scilly	30.11	61	SW	2	c	30.21	+ .18	61	59	− 1	N	1	cm	1	c	5.5	70	57	—
	Prawle Point ...	30.10	60	W	4	o	30.23	+ .18	61	60	+ 3	SSE	1	c	0	o	*	63	57	—
	Jersey (St. Aubin's)	30.13	65	WNW	3	b	30.23	+ .14	63	60	0	NNW	2	cm	2	b	*	66	56	—
	Hurst Castle ...	30.08	65	WSW	3	cm	30.21	+ .17	64	62	+ 3	NE	1	cm	0	cm	*	67	57	—
	Dungeness ...	30.04	62	SW	4	c	30.17	+ .16	64	60	+ 5	NNE	2	c	1	bc.c	*	65	58	—
	North Foreland	30.05	67	SW	1	o	30.20	+ .18	63	60	+ 4	NW	3	c	2	o	*	73	58	—
	London (Brixton) ...	30.03	71	WSW	2	bc	30.21	+ .21	66	58	+ 6	NE	1	b	*	o.bc,b	2.0	74	58	—
	Oxford	30.06	63	WSW	1	o	30.21	+ .23	65	59	+ 8	NNE	1	b	*	o,c	*	69	56	—
	Cambridge ...	30.02	68	WSW	2	o	30.21	+ .27	63	58	+ 1	N	1	b	*	o	5.9	73	54	—
	Yarmouth ...	29.98	68	WSW	2	c	30.17	+ .24	61	55	+ 1	N	2	b	3	b.c	*	69	56	—
GERMANY & HOLLAND.	Cuxhaven ...	29.97	61	W	4	o	30.06	+ .15	60	59	+ 3	N	2	bc	*	o	*	64	57	—
	Berlin	30.05	65	WNW	3	b	30.10	+ .04	63	56	+ 1	WNW	3	o	*	b	*	73	59	—
	Wiesbaden ...	*	*	*	*	*	30.14	+ .02	62	62	+ 5	NE	1	o	*	*	*	75	57	—
	Munich... ..	30.18	66	NE	3	b	30.21	− .04	65	61	+ 5	E	2	c	*	b	*	73	55	—
	The Helder ...	30.02	62	SW	3	o	30.13	+ .20	61	58	+ 3	NW	1	b	1	o	*	64	59	—
BELGIUM.	Brussels ...	*	*	*	*	*	30.17	+ .11	62	59	+ 2	WNW	1	bc	*	o	*	71	53	—
	Cape Gris Nez ...	30.03	59	WSW	4	c	30.13		62	60		SW	1	m	0	c	*	64	57	—
	Paris	30.08	73	NNE	1	bc	30.17	+ .09	59	57	− 5	N	1	c	*	bc	*	75	55	0.16
	Brest	30.15	64	W	1	b	30.26	+ .16	59	59	+ 3	NNW	1	b	1	b	*	68	52	—
	Lorient... ...	30.10	69	W	4	b	30.22	+ .14	58	57	0	N	2	b	3	b	*	75	55	—
FRANCE &	Rochefort ...	30.08	73	NW	3	bc	30.13	+ .09	64	64	− 2	NE	3	o	*	bc	*	82	61	—
	Belfort	30.04	70	WSW	2	b	30.11	+ .01	64	61	+ 7	Z	0	o	*	b	*	79	57	—
	Lyons ...	30.08	80	NE	1	b	30.09	.00	71	63	+ 5	NNE	1	b	*	b	*	85	64	—
	Nice	30.01	75	SW	1	bc	30.04	+ .04	76	64	+ 1	NE	1	b	0	bc	*	84	68	—
	Perpignan ...	30.01	83	SE	1	b	30.08	+ .04	80	72	+ 7	SW	2	b	*	b	*	87	68	—
	Biarritz ...	30.08	68	Z	0	o	30.13	+ .06	65	64	0	Z	0	o	0	o	*	77	63	—
PENINSULA.	Corunna ...																*			
	Lisbon	30.03	65	NNW	4	b	30.06	+ .05	67	62	0	N	4	b	*	b	*	79	63	—
	Azores (P. Delgada)																*			

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

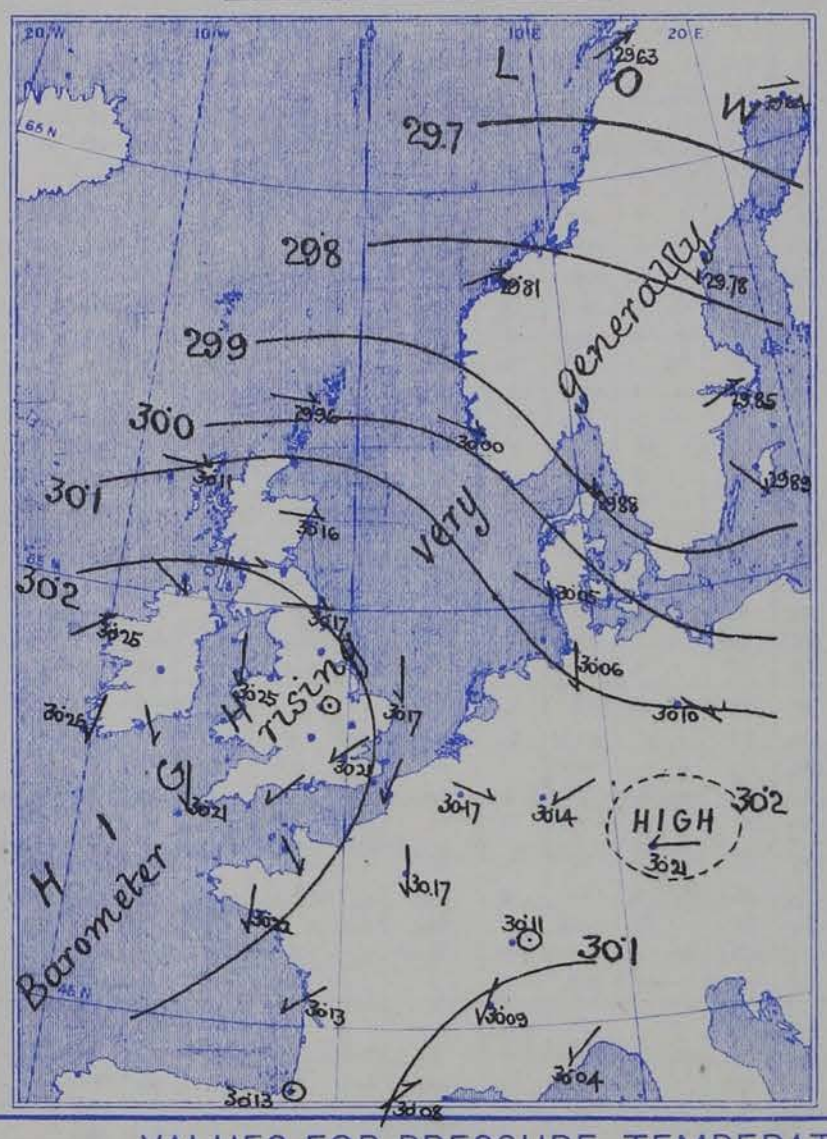
Bright Sunshine yesterday Southport 1.8 *hrs;*

WEATHER CHARTS

FOR Saturday, 10th July, 1897.

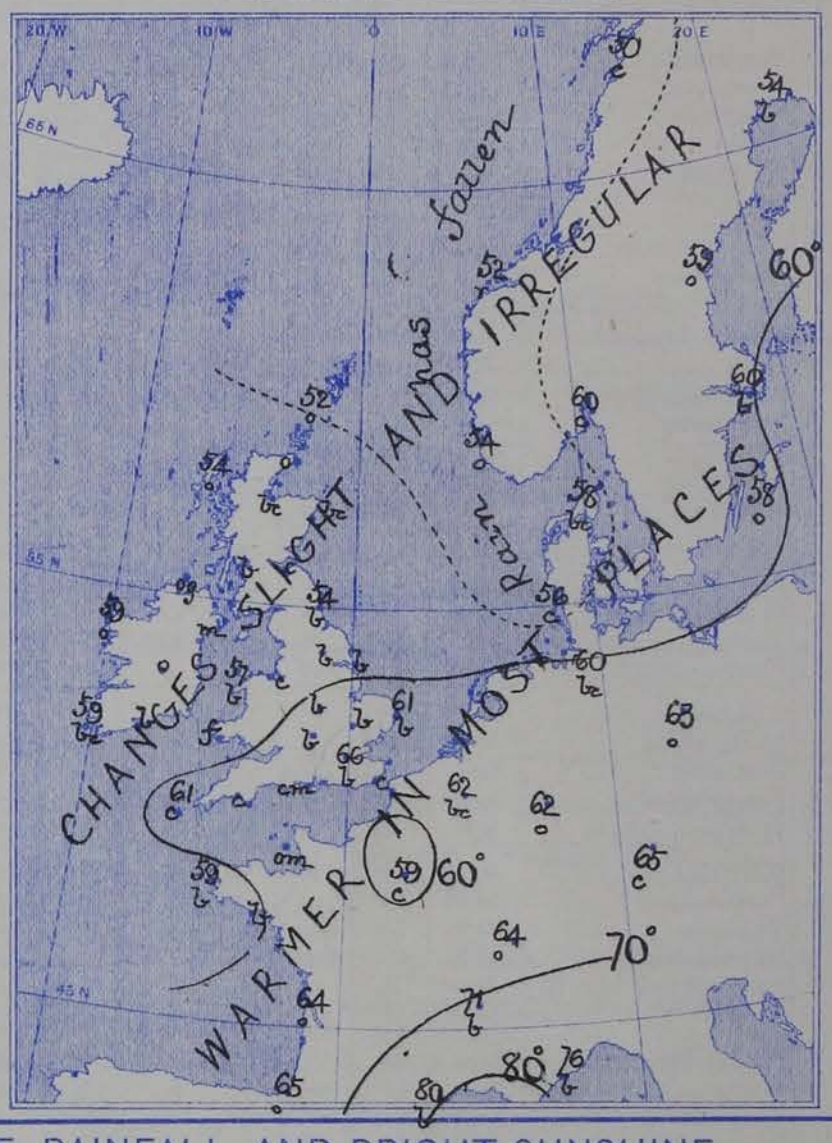
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·2 ins. and more over Ireland and England.
Lowest. Below 29·7 ins. over Lapland.
Gradients slight. Barometer rising generally.

TEMPERATURE

Highest 80° to 76° in the S. of France; 66° in London, 64° to 60° along our S. Coast generally, 63° at Berlin 60° at Stockholm.
Lowest 50° to 52° in the NW. of Norway, 52° at Lerwick Head, 54° at Malin Head.
The maximum readings recorded yesterday ranged from 75° to 70° over the inland parts of England. Berlin recorded 73°, Paris 75°, Rochefort 82°, Nice 84° and Lyons 85°.

WIND

Very light and anticyclonic over the whole of our islands and their neighbourhood – W.by N. in the north, NE.by N. and N.by E. in the south.

WEATHER

Dull in the N. of Scotland & some parts of Ireland, very fine, and quiet looking, elsewhere, but hazy in some places.
Rain fell yesterday in Norway and Denmark, but none over Great Britain or Ireland. Bright Sunshine recorded yesterday was slight on our SW.n coasts, but more than 6 hrs. at Valencia & Aberdeen & 7·2 hrs. at Stornoway.

SEA

Slight to very smooth

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

An anticyclone is spreading steadily over our islands from the westward, and very fine warm weather is probable.

FORECASTS

For the 24 hours ending at NOON on 11th JULY 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W.by N. and SW.by N. winds, moderate; cloudy, a few showers.	6 SCOTLAND WEST	Variable and SW.by S. airs; fine, warm.
1 SCOTLAND EAST	W.by N. breezes, light; fine, warm.	7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST	Same as No. 5.	9 IRELAND NORTH	
4 MIDLAND COUNTIES	Same as Nos. 1 and 2.	10 IRELAND SOUTH	
5 ENGLAND SOUTH	NE.by N. and E.by N. airs; very fine, hazy at times.	WARNINGS	NONE ISSUED

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.76	55	53	S	5	o	4
Sumburgh Head	29.64	56	53	W	3	bc	4
Stornoway	29.75	59	58	WNW	5	c	5
Aberdeen	29.77	58	54	SE	2	c	1
Shields	29.85	64	?59	WNW	4	c	2
Ardrossan	29.88	60	58	WSW	2	c	2
Malin Head ...	29.88	57	55	W	5	c	2
Belmullet	29.99	59	59	WNW	2	o	*
Holyhead	29.97	57	57	SW	3	ogm2	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.03	60	58	WNW	2	c	3
Scilly	30.08	70	65	SW	3	c	3
Jersey	30.13	65	59	W	3	b	3
Hurst Castle ...	30.07	65	62	WSW	4	c	2
Dungeness ...	30.04	65	60	SW	5	bc	4
North Foreland	30.03	68	60	SE	4	c	3
London (Westminster)	30.01	70	61	WSW	3	c	*
Yarmouth ...	29.95	67	59	WSW	4	b	2
Rochefort ...	30.07	75	73	SW	3	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine and bright over the Mediterranean, Spain and France as well as over the east of Scotland, Sweden, Finland & the north of Russia; cloudy over Ireland, England and the Netherlands and Central Europe, with slight rain at several of our own stations and at the Helder. Rain falling later over Norway and Denmark, but none at the British and Irish stations, where, in fact, the sky cleared.

Temperature rising over our islands and France. Morning readings highest 84° at Trieste, 82° at La Calle, Brindisi and Leghorn, 75° at Nice and above 60° over the greater part of Central Europe and several parts of England. Lowest 45° at Bodö, 52° at Skudesnaes, 54° at Malin Head: Rising later to between 70° and 75° over the inland parts of England and Germany, to 75° at Paris and between 80° and 85° over the southern parts of France.

Wind. Very light and anticyclonic over the southern half of Europe; SW.ly to W.ly over the northern countries, – of moderate strength in most places, but blowing a moderate gale at Bodö. Falling light over our islands later and becoming anticyclonic in the southwest and west. No important change occurring elsewhere.

Barometer. Highest 30.25 ins. at Munich, and exceeding 30.00 ins. over all but the northern and northwestern countries. Lowest 29.4 ins. over Lapland and below 29.6 ins. over the Shetlands. Rising later all over Northwestern Europe as a new anticyclone began to spread in over our islands from the Atlantic.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Sunday 11th July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA	Haparanda ...	29.73	57	L	0	bc	29.94	+ .30	62	59	+ 8	N	2	bc	*	bc	*	64	46	—
	Hernösand ...	29.91	57	L	0	c	30.10	+ .32	58	50	— 1	NW	6	b	*	b	*	68	43	—
	Stockholm ...	29.89	59	S	2	b	30.02	+ .17	59	56	— 1	NNW	4	o	*	b	*	70	54	—
	Wisby	29.93	57	SSW	4	b	30.04	+ .15	59	56	+ 1	NW	4	b	*	b	*	61	52	—
	Karlstad ...	29.87	61	SW	2	b	30.12	+ .26	59	52	+ 5	NNE	4	b	*	b	*	*	*	—
	Bodö	29.84	48	L	0	r	30.11	+ .49	48	46	— 2	WSW	4	o	2	r	*	52	45	0.28
	Christiansund ...	30.02	52	WSW	6	r	30.29	+ .48	51	48	— 1	WNW	5	o	3	r	*	52	48	0.12
	Skudesnaes ...	30.17	54	NNW	2	o	30.36	+ .36	54	52	0	NNW	2	c	2	o	*	55	50	*
	Færder (Christiania Fjord)	29.89	66	WNW	4	b	30.17	+ .33	60	52	0	NNW	5	b	2	b	*	66	57	—
	Skagen (The Scaw)	29.99	57	NW	3	b	30.14	+ .26	59	55	+ 1	NNE	4	b	1	b	*	63	55	—
	Fanö	30.18	54	NW	6	c	30.23	+ .48	57	53	+ 1	NNW	6	c	*	c	*	61	54	—
BRITISH ISLANDS.	Sumburgh Head	30.16	52	W	3	o	30.31	+ .35	54	51	+ 2	W	2	o	3	o	*	50	47	—
	Stornoway ...	30.23	58	W	3	c	30.26	+ .15	56	56	+ 2	SSW	4	c	4	c	5.9	61	45	—
	Wick	30.25	53	NW	2	b	30.32	+ .21	56	53	0	S	2	b	1	b	*	64	42	—
	Nairn	30.39	65	W	1	b	30.30	+ .18	57	54	0	WNW	2	b	1	b	*	66	37	—
	Aberdeen ...	30.27	56	E	1	b	30.34	+ .18	59	52	0	S	2	b	1	b	12.0	64	43	—
	Leith	30.24	61	W	2	b	30.35	+ .18	62	55	+ 5	W	1	b	*	b	*	70	44	—
	Shields	30.27	57	E	2	b	30.37	+ .20	58	55	+ 4	SE	2	b	2	b	*	61	47	—
	Spurn Head ...	30.31	56	ENE	3	b	30.40	+ .12	59	57	0	ENE	2	b	3	b	*	64	50	—
	York	30.27	68	NNW	1	b	30.39	+ .18	60	55	+ 2	S	1	b	*	b	12.6	69	46	—
	Loughborough ...	30.27	69	NW	2	b	30.39	+ .18	61	56	— 1	SE	1	bw	*	bc, bm	*	72	42	—
	Ardrossan ...	30.18	60	WNW	3	bc	30.34	+ .14	62	60	+ 5	SSE	1	bm	0	bc	*	63	43	—
	Malin Head ...	30.26	61	N	1	bc	30.49	+ .09	58	56	+ 4	S	4	b	1	bc	*	62	49	—
	Belmullet ...	30.30	61	WSW	1	b	30.32	+ .07	61	60	+ 2	SSW	1	c	*	b	*	62	50	—
	Donaghadee ...	30.32	57	S	3	c	30.33	+ .08	58	52	+ 2	SW	3	b	1	c	*	62	42	—
	Liverpool (Bidston)	30.31	59	NW	1	b	30.36	+ .12	60	54	+ 3	ESE	1	b	?	b	*	61	49	—
	Holyhead ...	30.32	55	NW	2	b	30.34	+ .09	61	57	+ 4	NE	1	b	1	b	*	61	51	—
	Parsonstown ...	30.28	67	L	0	bc	30.35	+ .09	57	53	0	SE	1	c	*	bc	3.9	67	48	—
	Valencia ...	30.29	64	SW	2	b	30.31	+ .05	64	59	+ 5	SE	3	o	3	b	15.4	64	48	—
	Roche's Point ..	30.32	62	ESE	1	b	30.35	+ .08	59	54	+ 2	SE	2	b	2	b	*	64	50	—
	Pembroke (St. Ann's Hd.)	30.27	63	N	3	b	30.33	+ .10	61	60	+ 4	L	0	b	2	b	14.8	66	50	—
	Scilly	30.27	65	N	3	c	30.29	+ .08	63	59	+ 2	NE	4	c	1	c	7.5	66	58	—
	Prawle Point ...	30.26	66	NW	3	c	30.32	+ .09	66	63	+ 5	NE	3	bc	2	c	*	67	56	—
	Jersey (St. Aubin's)	30.25	66	NNW	3	bm	30.30	+ .07	67	61	+ 4	ENE	3	bm	3	b	*	70	60	—
	Hurst Castle ...	30.23	69	SW	2	b	30.35	+ .14	65	61	+ 1	ENE	2	bm	2	b	*	73	57	—
	Dungeness ...	30.24	62	ENE	2	b	30.34	+ .17	62	57	— 2	ENE	4	bc	3	b	*	70	59	—
	North Foreland	30.27	62	E	3	b	30.39	+ .19	60	56	— 3	E	3	c	3	b	*	67	55	—
	London (Brixton) ...	30.24	74	N	1	bc	30.36	+ .15	62	54	— 4	ENE	2	b	*	bc, b	10.1	77	51	—
	Oxford	30.25	64	NNE	2	b	30.38	+ .17	62	56	— 3	L	2	c	*	b, bm	*	75	47	—
	Cambridge ...	30.26	73	N	1	b	30.41	+ .20	57	51	— 6	E	1	m	*	b	11.8	75	45	—
	Yarmouth ...	30.26	63	NE	2	b	30.38	+ .21	60	57	— 1	ENE	3	bv	2	b	*	65	53	—
GERMANY & HOLLAND.	Cuxhaven ...	30.17	63	N	3	b	30.27	+ .21	57	56	— 3	N	3	o	*	b	*	66	55	—
	Berlin	30.12	66	W	1	o	30.21	+ .11	60	52	— 3	WNW	1	bc	*	o	*	73	52	—
	Wiesbaden ...	*	*	*	*	*	30.29	+ .15	64	59	+ 2	L	0	b	*	*	*	73	55	0.04
	Munich... ..	30.23	65	L	0	o	30.31	+ .10	62	58	— 3	L	0	b	*	o	*	77	57	1.02
	The Helder ...	30.26	62	NNW	2	b	30.34	+ .21	59	53	— 2	NNE	2	b	2	b	*	63	57	—
BELGIUM.	Brussels ...	*	*	*	*	*	30.36	+ .19	60	55	— 2	ENE	3	b	*	b	*	73	49	—
	Cape Gris Nez...	30.21	62	E	1	b	30.30	+ .17	59	56	— 3	ENE	2	bc	1	b	*	68	54	—
	Paris	30.20	70	N	2	bc	30.27	+ .14	63	59	+ 4	NE	2	b	*	bc	*	77	56	—
	Brest	30.27	67	NE	2	c	30.29	+ .03	59	57	0	NE	3	c	1	c	*	68	55	—
	Lorient... ...	30.19	72	L	0	bc	30.22	.00	63	60	+ 5	NE	4	b	4	bc	*	75	55	—
FRANCE &	Rochefort ...	30.11	73	NW	3	b	30.13	.00	70	68	+ 6	NE	3	b	*	b	*	82	64	—
	Belfort	30.08	73	NE	2	c	30.16	+ .05	64	54	0	E	4	b	*	c	*	81	58	—
	Lyons	30.05	80	N	2	b	30.10	+ .01	68	64	— 3	N	2	b	*	b	*	88	65	—
	Nice	30.00	73	SW	2	c	30.01	— .03	75	70	— 1	E	1	bc	0	c	*	66	60	—
	Perpignan ...	30.00	74	W	2	b	30.05	— .03	80	70	0	NW	2	b	*	b	*	95	70	—
	Biarritz ...	30.09	68	SW	2	o	30.10	— .03	65	64	0	SSW	2	o	2	o	*	73	63	—
PENINSULA.	Corunna ...																*			
	Lisbon	30.02	64	NNW	4	b	30.03	— .03	66	63	— 1	S	1	b	*	b	*	82	61	—
	Azores (P. Delgada)																*			

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 13·1 *hrs;*

WEATHER CHARTS

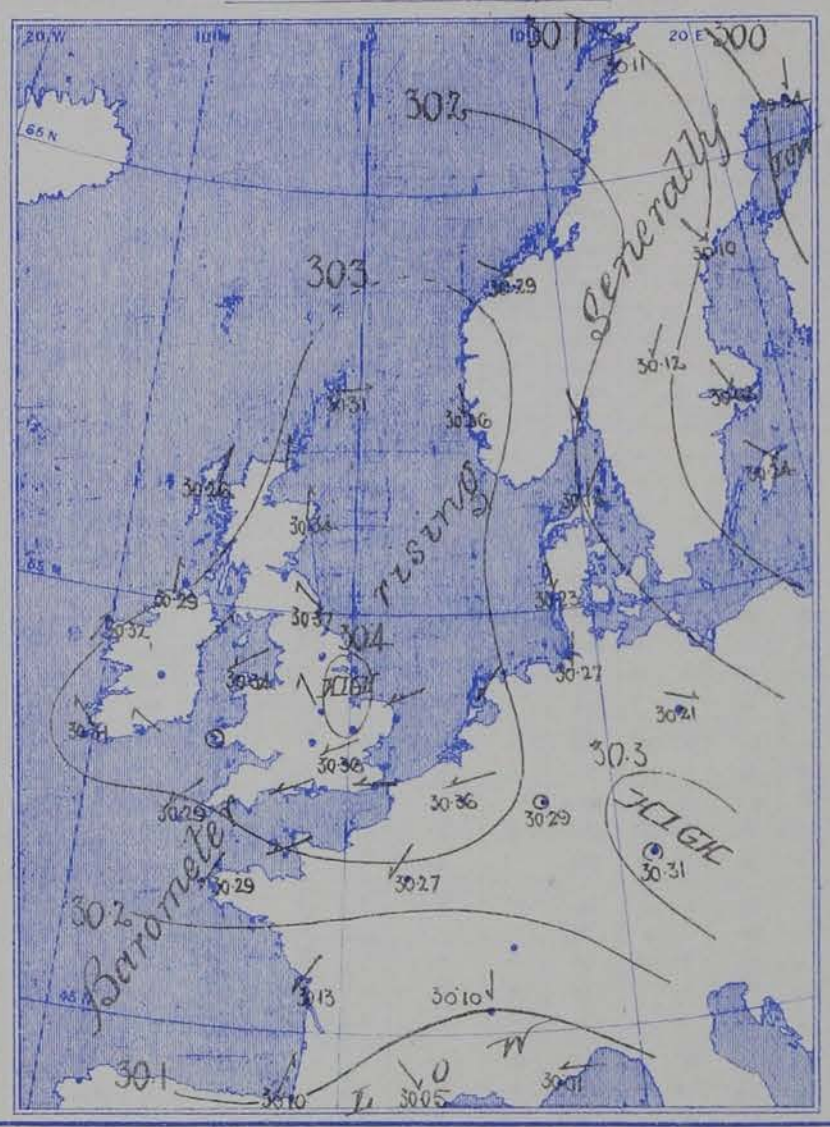
FOR SUNDAY, 11TH JULY, 1897.

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

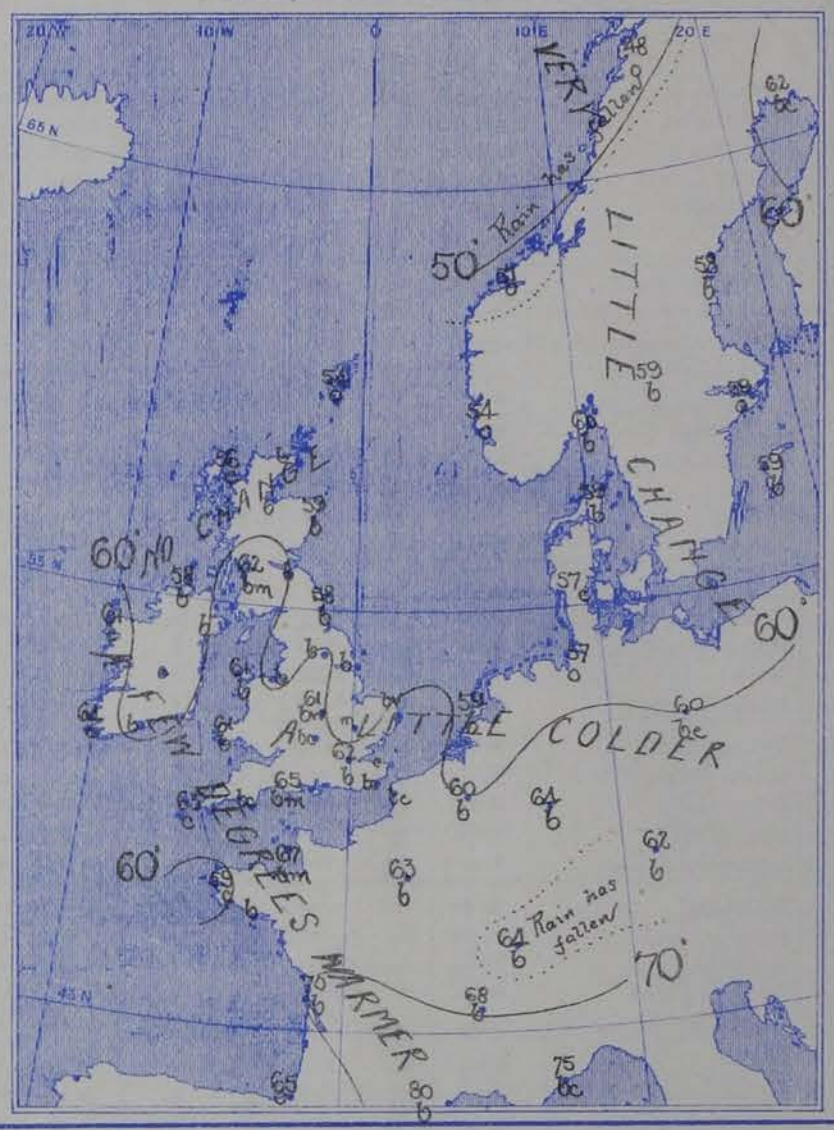
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 73	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·4 in: and more over our eastern counties, and exceeding 30·3 in: over Ireland, England, the Netherlands, nearly the whole of the North Sea, the southwest of Norway and the east and south of Scotland, as well as over South Germany.

Lowest, Below 30·1 in: over Spain and the south of France, and also over the east of Sweden

Gradients very slight over the United Kingdom and the North Sea, moderate elsewhere. Barometer falling slightly over Southern Europe, rising elsewhere.

TEMPERATURE

Highest, 80° at Perpignan, 75° at Nice, 70° at Rochefort, and above 60° over Germany, France, and England generally, 64° to 61° in the south of Ireland, 62° at Valencia.

Lowest, 48° at Bodö, 51° at Christiansund, 54° at Skudenaes and Sumburgh Head.

The maxima recorded yesterday, ranged from 60° to 64° over Ireland and Scotland, but touched 72° to 75° over the greater part of England, 73° at Berlin and Brunsbüttel, 77° at Paris, 86° at Nice, and 95° at Perpignan.

WIND

Light and anticyclonic over the whole of our Islands and their neighbourhood.

Moderate to strong from the NW^ly and N^ly over Sweden, moderate from E and NE in the south of France.

WEATHER

Dull in Norway, the Shetlands, and the southwest of Ireland, very fair elsewhere.

Some rain has fallen in the northwest of Norway and at Belfort, and a large amount is reported from Munich.

Bright Sunshine recorded yesterday ranged from nearly 15 hours at Pembroke to less than 4 hrs at Parsonstown.

SEA

Moderate in the Minch, slight in the English Channel, very smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 12th July 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED.	6 SCOTLAND WEST	NONE ISSUED.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·10	55	52	NW	4	c	3
Sumburgh Head	30·10	53	51	W	3	o	4
Stornoway	30·20	61	60	W	3	c	3
Aberdeen	30·22	61	52	SSE	3	b	1
Shields	30·25	57	54	E	2	c	2
Ardrossan	30·26	62	60	SW	1	b	1
Malin Head ...	30·27	57	53	WNW	2	o	2
Belmullet	30·31	62	62	WSW	1	bc	*
Holyhead	30·31	59	55	NW	2	b	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·30	61	57	W	2	b	3
Scilly	30·27	65	61	N	1	c	1
Jersey	30·26	70	63	N	3	bc	3
Hurst Castle ...	30·23	71	67	SW	3	bcm	1
Dungeness ...	30·22	67	62	ENE	2	b	1
North Foreland	30·26	65	58	NE	3	b	2
London (Westminster)	30·23	73	61	N	2	bc	*
Yarmouth ...	30·23	65	59	NNE	3	b	3
Rochefort ...	30·13	77	75	NW	3	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning dull on our extreme northwestern and northern coasts and over Norway, rainy at Christiansund, dull in many parts of North Germany and on the southwest coast of France; very fine elsewhere. Rain falling later in the northwest of Norway, and in some parts of Southern Europe: fall at Munich said to be heavy (1·02 ins.).

Temperature rises over our Islands, not changed decidedly elsewhere. Morning readings highest 85° at Barcelona and Madrid, 84° at Trieste, 83° at Brindisi, 81° at Toulon, 80° at La Calle: exceeding 70° over southern and southeastern Europe generally, 66° in London. Rising later to between 70° and 75° over England, 77° at Munich and Paris, to 88° at Lyons and 95° at Perpignan.

Wind light and anticyclonic over our Islands — W³ in the north, NW³ to N³ in the east, N¹ and NE¹ in the south and over the Bay of Biscay; W¹ and SW¹ over Northern Europe; very light and variable over the southern countries. Very little change later.

Barometer highest 30·2 ins. and more in an anticyclone covering Ireland, England, and Brittany, and exceeding 30·1 ins. all over our Islands, and the greater part of France, Germany, and the North Sea. Lowest below 29·7 ins. over Lapland. Rising over our Islands all day; anticyclone increasing in intensity, and advancing northeastwards.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
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DAILY WEATHER REPORT

for 8 a.m. on Monday 12th July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·13	59	W	2	o	30·26	+ ·32	61	59	− 1	W	2	b	*	o	*	70	50	—
	Hernösand ...	30·31	59	2	o	b	30·40	+ ·30	59	51	+ 1	N	2	b	*	b	*	70	52	—
	Stockholm ...	30·26	58	N	2	b	30·35	+ ·33	62	55	+ 3	N	4	b	*	b	*	64	55	0·24
	Wisby	30·23	57	N	6	b	30·30	+ ·26	58	55	− 1	N	8	b	*	b	*	63	48	—
	Karlstad ...	30·29	65	NNE	1	b	30·43	+ ·31	59	51	0	NE	4	b	*	b	*	*	*	—
	Bodo	30·30	51	SW	2	o	30·32	+ ·21	53	50	+ 5	SE	2	o	1	o	*	53	46	0·12
	Christiansund ...	30·39	53	2	o	m	30·43	+ ·14	54	52	+ 3	SW	1	b	1	m	*	55	45	—
	Skudesnaes ...	30·37	55	N	4	b	30·41	+ ·05	57	54	+ 3	N	4	b	1	b	*	59	50	*
	Færder (Christiania Fjord)	30·28	65	W	2	b	30·43	+ ·26	60	54	0	N	2	b	1	b	*	66	55	—
	Skagen (The Scaw)	30·34	58	N	2	b	30·40	+ ·26	60	57	+ 1	NE	1	b	0	b	*	70	55	—
	Fanö	30·31	55	NNW	4	b	30·36	+ ·13	56	54	− 1	NE	2	b	*	b	*	64	50	—
BRITISH ISLANDS.	Sumburgh Head	30·32	57	S	2	b	30·36	+ ·05	59	55	+ 5	2	0	b	2	b	*	59	45	—
	Stornoway ...	30·27	64	WSW	3	b	30·29	+ ·03	58	56	+ 2	2	0	b	0	b	15·6	65	49	—
	Wick	30·34	55	S	1	b	30·35	+ ·03	57	56	+ 1	S	1	b	1	b	*	66	40	—
	Nairn	30·26	70	NW	1	b	30·31	+ ·01	58	55	+ 1	2	0	b	0	b	*	73	41	—
	Aberdeen ...	30·32	60	S	3	b	30·36	+ ·02	59	55	0	SE	2	b	1	b, f	14·7	63	44	—
	Leith	30·30	66	2	o	b	30·32	− ·03	61	57	− 1	ESE	1	bc	*	b	*	70	49	—
	Shields	30·33	60	ESE	3	b	30·37	·00	59	57	+ 1	SE	3	bm	2	b	*	62	50	—
	Spurn Head ...	30·37	57	ESE	3	bc	30·38	− ·02	55	54	− 4	E	3	o	3	bc	*	63	52	—
	York	30·35	69	ESE	1	b	30·39	·00	61	55	+ 1	E	1	b	*	b	13·7	72	47	—
	Loughborough ...	30·32	74	E	2	c	30·37	− ·02	55	53	− 6	SE	3	cmr	*	bc, bm, o	*	76	42	—
	Ardrossan ...	30·29	62	SW	1	b	30·30	− ·04	61	61	− 1	2	0	bf	0	b	*	67	50	—
	Malin Head ...	30·27	66	S	2	b	30·26	− ·03	66	62	+ 8	ESE	1	bm	1	b	*	67	54	—
	Belmullet ...	30·30	63	WSW	1	b	30·24	− ·08	65	63	+ 4	ESE	1	b	*	b	*	67	53	—
	Donaghadee ...	30·32	59	SE	3	b	30·31	− ·02	56	53	− 2	N	3	m	1	b	*	61	45	—
	Liverpool (Bidston)	30·30	65	NNW	1	b	30·31	− ·05	62	54	+ 2	SE	2	b	2	b	*	74	55	—
	Holyhead ...	30·32	61	NW	2	b	30·27	− ·07	68	64	+ 7	ESE	1	bm	0	b	*	68	54	—
	Parsonstown ...	30·28	71	2	o	bc	30·27	− ·08	64	60	+ 7	2	o	b	*	bc	9·0	72	50	—
	Valencia ...	30·28	67	S	2	bc	30·21	− ·10	66	59	+ 2	E	1	cm	2	bc	5·8	68	53	—
	Roche's Point ...	30·33	61	SE	2	b	30·24	− ·11	64	58	+ 5	ESE	3	b	2	b	*	64	58	—
	Pembroke (St. Ann's Hd.)	30·29	67	NE	3	b	30·25	− ·08	62	60	+ 1	SE	4	b	3	b	13·5	68	56	—
	Scilly	30·28	65	ENE	3	c	30·21	− ·08	61	58	− 2	E	4	b	1	b, c	14·7	69	57	—
	Prawle Point ...	30·28	62	ENE	3	b	30·23	− ·09	57	56	− 9	ENE	5	o	4	b	*	69	55	—
	Jersey (St. Aubin's)	30·23	66	NE	5	bc	30·16	− ·14	66	62	− 1	NE	4	bm	3	bm	*	72	59	—
	Hurst Castle ...	30·28	68	E	3	bc	30·26	− ·09	62	60	− 3	ENE	5	cm	3	bc	*	74	53	—
	Dungeness ...	30·29	62	NE	5	bc	30·26	− ·08	60	56	− 2	ENE	4	c	3	bc	*	66	57	—
	North Foreland	30·36	59	E	4	bc	30·31	− ·08	58	56	− 2	E	4	o	4	bc	*	64	55	—
	London (Brixton) ...	30·33	64	ENE	2	bc	30·31	− ·05	60	55	− 2	ENE	3	o	*	bc, br	10·4	75	54	—
	Oxford	30·31	65	SSE	2	b	30·33	− ·05	56	54	− 6	NE	2	og	*	bm	*	74	47	—
	Cambridge ...	30·33	72	ESE	2	b	30·36	− ·05	58	54	+ 1	E	2	o	*	b	13·3	77	46	—
	Yarmouth ...	30·38	62	ENE	3	b	30·35	− ·03	57	54	− 3	ENE	4	cr	3	b	*	64	53	—
GERMANY & HOLLAND.	Cuxhaven ...	30·28	59	N	3	bc	30·30	+ ·03	58	55	+ 1	NE	3	b	*	bc	*	61	55	—
	Berlin	30·23	63	WNW	3	b	30·26	+ ·05	62	53	+ 2	NNE	1	b	*	b	*	68	52	—
	Wiesbaden ...	*	*	*	*	*	30·25	− ·04	60	55	− 4	NE	4	b	*	*	*	73	54	—
	Munich	30·26	64	SW	2	b	30·22	− ·09	61	56	− 1	E	4	b	*	b	*	73	48	—
	The Helder ...																*			
BELGIUM.	Brussels ...	*	*	*	*	*	30·29	− ·07	59	54	− 1	NE	3	c	*	b	*	71	48	—
	Cape Gris Nez ...	30·25	59	E	5	bc	30·22	− ·08	58	55	− 1	E	5	bc	5	bc	*	64	52	—
	Paris	30·19	74	N	2	b	30·17	− ·10	64	59	+ 1	NE	2	b	*	b	*	78	55	—
	Brest	30·18	74	ENE	3	b	30·10	− ·19	63	59	+ 4	E	2	b	1	b	*	81	54	—
	Lorient	30·18	73	NE	3	bc	30·09	− ·13	63	61	0	ENE	3	m	2	bc	*	79	54	—
FRANCE &	Rochefort ...	30·05	83	ENE	3	b	30·00	− ·13	68	64	− 2	ENE	3	bc	*	b	*	95	63	—
	Belfort ... ... †	30·08	72	NE	4	b	30·10	− ·06	60	55	− 4	NE	5	b	*	b	*	76	53	—
	Lyons	30·02	80	N	2	b	30·02	− ·08	68	62	0	N	1	b	*	b	*	85	62	—
	Nice	29·98	79	2	o	c	29·96	− ·05	80	69	+ 5	E	2	b	0	c	*	88	72	—
	Perpignan ...	29·98	84	S	1	o	29·98	− ·07	80	72	0	2	o	b	*	o	*	97	68	—
	Biarritz ...	30·01	73	NNE	3	r	29·99	− ·11	71	69	+ 6	WNW	2	c	1	rt	*	77	65	—
PENINSULA.	Corunna ...																*			
	Lisbon	29·98	71	NNW	3	b	29·96	− ·07	66	63	0	SSE	2	bc	*	b	*	84	63	—
	Azores (P. Delgada)	30·11	69	SW	4	c	30·02		69	68		SW	5	o	4	c	*	75	68	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

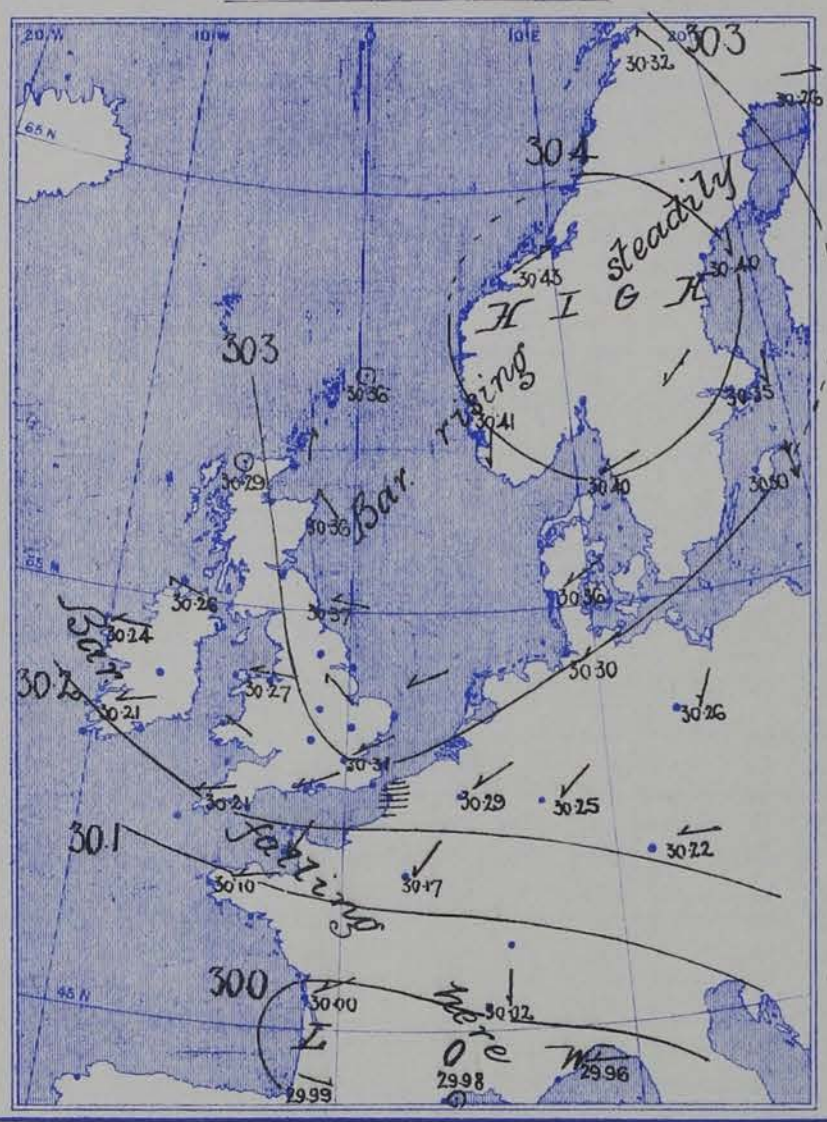
Bright Sunshine yesterday Southport 13·5 *hrs;*

WEATHER CHARTS

FOR MONDAY, 12TH JULY, 1897.

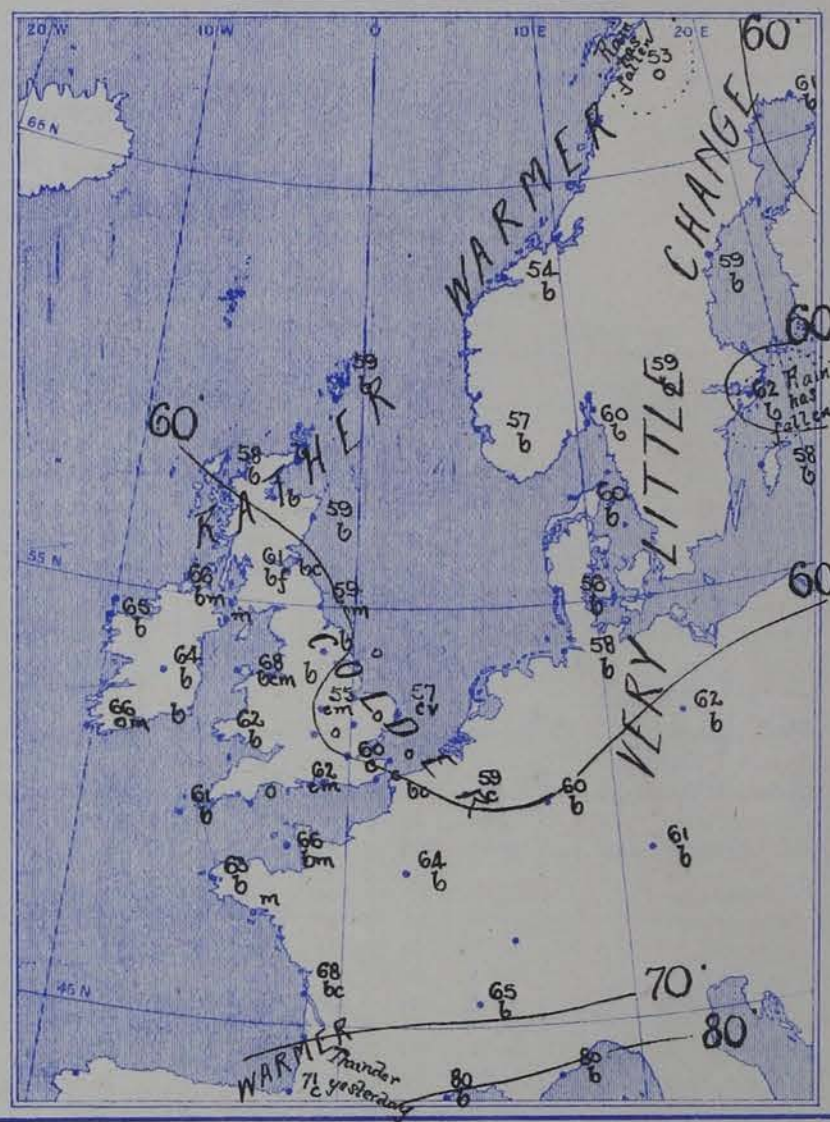
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough : *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 56	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 25	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.4 ins. and more to 30.3 ins. in a large anticyclone covering Scandinavia, the North Sea, Scotland and the N. and E. of England.
Lowest below 30.0 ins. over the SW. and S. of France
Gradients very slight within the anticyclone mentioned above, moderate for E. winds over the English Channel and France. Barometer rising in the N. and NE. falling somewhat in the SW. and S.

TEMPERATURE

Highest 80° at Nice and Perpignan, 68° at Rochefort and Holyhead, 66° at Malin Hd., 61° at Haparanda.
Lowest 53° at Bodö, 54° at Christiansund, 55° at Spurn Hd., 58° at the N. Foreland and Cape Gris Nez.
It rose during yesterday to between 70° and 77° over England, to 78° at Paris, 88° at Nice, and 95° at Rochefort. Over the southeast of England it fell quickly again towards evening.

WIND

Calm and light from SE. at the Scotch stations, moderate from the E. over Ireland and England, fresh from ENE. in the Channel, but light from WNW. at Biarritz.

WEATHER

Fine generally, but temporarily dull at several of the English stations.
There is no measurement of rain reported at any of our own, the French or the German stations. The amounts of Bright Sunshine recorded yesterday were very large except at Valencia (Ireland) and even there the record was 5.8 hrs.

SEA

Moderate to rather rough in the English Channel, slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

No decided change is indicated at present.

FORECASTS

For the 24 hours ending at NOON on 13th JULY 1897.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E.	SE. and E. airs; fine, warmer.
3 ENGLAND EAST	Same as No. 5.
4 MIDLAND COUNTIES	Same as Nos. 0 to 2.
5 ENGLAND SOUTH	NE. breezes, fresh; fair, dry.
6 SCOTLAND WEST 7 ENGLAND N.W.	Same as Nos. 0 to 2.
8 ENGLAND S.W.	Same as No. 5.
9 IRELAND NORTH 10 IRELAND SOUTH	E. and SE. winds, freshening; fine.
WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·38	59	54	NNW	6	c	2
Sumburgh Head							
Stornoway ...	30·27	64	57	SW	4	b	4
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	30·31	64	61	E	3	bc	1
Belmullet	30·38	65	64	SSW	1	b	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	30·29	71	63	ENE	5	b	4
Hurst Castle ...							
Dungeness ...	30·33	65	60	NE	5	bc	4
North Foreland	30·39	63	58	E	4	bc	3
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30·10	90	82*	NE	4	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental Information not received

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM JULY 4TH to 10TH 1897.

During the greater part of this week barometric pressure was highest over France, Germany and the Mediterranean, lowest off our extreme northwestern coasts, so that the depressions which reached our northwestern districts from the Atlantic moved northeastwards to Norway, but spread well to the southward over the British Islands in their passage.

The first of these was rather deep. It reached our northwestern coasts early on the 5th, and disappeared over Scandinavia late on the 7th. It caused SW. and NW. gales on many parts of our northwestern coasts, and fresh breezes over the British Islands generally.

The second was a very shallow system which reached our northwest coasts late on the 8th and dispersed late on the 9th.

After the 9th an anticyclone began to spread over the Kingdom from the SWwd.

As the first of these disturbances passed off the wind veered to N. and NW., with a decided fall of temperature, so that early on Thursday the thermometer fell to 36° and less on the grass over our inland counties, and it is reported that hoarfrost occurred over some parts of Norfolk.

The rainfall has consequently been considerable in the west and north, very slight in the south and east, and on the last named days there was none at any of the English stations.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Tuesday 13th July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·24	59	2	0	bc	30·25	—·01	71	68	+ 10	W	2	bc	*	bc	*	72	48	—
	Hernösand ...	30·37	62	S	2	bc	30·37	—·03	68	57	+ 9	N	4	b	*	bc	*	75	55	—
	Stockholm ...	30·39	64	NE	2	b	30·33	—·02	66	55	+ 4	NNE	4	b	*	b	*	72	56	—
	Wisby	30·35	58	NE	4	b	30·23	—·07	59	56	+ 1	N	6	b	*	b	*	63	52	—
	Karlstad ...	30·39	67	2	0	b	30·35	—·08	67	58	+ 8	NW	2	b	*	b	*	*	*	—
	Bodö	30·38	51	SW	6	0	30·45	+·13	53	50	0	WSW	2	0	1	0	*	54	50	0·04
	Christiansund ...	30·48	59	2	0	b	30·49	+·06	53	51	— 1	ENE	2	f	2	b	*	61	52	—
	Skudesnaes ...	30·44	64	N	2	b	30·44	+·03	60	51	+ 3	2	0	b	0	b	*	69	50	*
	Færder (Christiania Fjord)	30·38	67	W	2	b	30·38	—·05	62	59	+ 2	N	1	c	1	b	*	70	57	—
	Skagen (The Scaw)	30·41	60	NNE	1	b	30·38	—·02	63	59	+ 3	ENE	1	bc	0	b	*	72	57	—
	Fanö	30·34	59	2	0	b	30·31	—·05	58	56	+ 2	E	1	b	*	b	*	79	52	—
BRITISH ISLANDS.	Sumburgh Head	30·36	56	S	1	b	30·36	·00	56	54	— 3	ESE	2	b	3	b	*	60	48	—
	Stornoway ...	30·25	63	S	2	b	30·22	—·07	61	57	+ 3	2	0	b	0	b	14·8	69	51	—
	Wick	30·32	60	S	4	b	30·31	—·04	55	52	— 2	S	4	b	3	b	*	63	50	—
	Nairn	30·23	65	E	1	b	30·25	—·06	59	56	+ 1	2	0	b	0	b	*	66	43	—
	Aberdeen ...	30·37	55	SSE	3	b	30·36	·00	56	51	— 3	SSE	2	bc	2	b	15·7	63	51	—
	Leith	30·26	65	ENE	2	b	30·33	+·01	54	51	— 7	E	1	0	*	b	*	72	47	—
	Shields	30·35	54	ESE	3	b	30·34	—·03	54	53	— 5	NE	2	0	3	b	*	63	50	—
	Spurn Head ...	30·31	55	E	4	0	30·24	—·14	61	60	+ 6	ENE	4	b	4	0	*	61	52	—
	York	30·32	63	E	1	b	30·28	—·11	64	58	+ 3	ENE	1	b	*	b	15·3	68	49	—
	Loughborough ...	30·27	65	ESE	4	b	30·23	—·14	60	57	+ 5	NNE	2	bcm	*	bc,om,c	*	69	52	—
	Ardrossan ...	30·21	67	2	0	bm	30·26	—·04	57	56	— 4	NE	4	bf	2	bm	*	72	48	—
	Malin Head ...	30·20	62	ESE	3	bm	30·16	—·10	59	55	— 7	ESE	4	bm	2	bm	*	65	55	—
	Belmullet ...	30·16	73	N	1	b	30·10	—·14	67	66	+ 2	SSE	1	b	*	b	*	75	57	—
	Donaghadee ...	30·24	64	SE	2	m	30·24	—·07	58	54	+ 2	E	3	b	1	m	*	67	52	—
	Liverpool (Bidston)	30·22	71	ESE	3	b	30·21	—·10	60	55	— 2	E	3	b	2	bm	*	73	50	—
	Holyhead ...	30·19	69	NE	2	b	30·18	—·09	63	59	— 5	NE	2	b	1	b	*	71	53	—
	Parsonstown ...	30·15	74	SE	1	b	30·13	—·14	65	59	+ 1	SE	1	b	*	b	12·8	76	49	—
	Valencia ...	30·11	70	ESE	2	c	30·04	—·17	66	60	0	E	2	bm	2	cm,c	7·3	75	56	—
	Roche's Point ..	30·16	62	ESE	4	b	30·11	—·13	60	57	— 4	SE	4	c	3	b	*	65	56	—
	Pembroke (St. Ann's Hd.)	30·16	67	SE	3	b	? 30·15	—·10	60	59	— 2	SE	4	bm	3	b	14·8	68	55	—
	Scilly	30·10	63	E	5	c	30·01	—·20	61	58	0	E	5	0	2	o,c	9·6	70	57	—
	Prawle Point ...	30·14	59	ENE	5	b	30·05	—·18	61	58	+ 4	ENE	5	b	4	b	*	63	55	—
	Jersey (St. Aubin's)	30·08	65	NE	6	bm	30·01	—·15	65	61	— 1	NE	4	bm	3	bm	*	71	58	—
	Hurst Castle ...	30·15	67	ENE	4	b	30·09	—·17	67	63	+ 5	NE	3	bm	2	bc,b	*	71	55	—
	Dungeness ...	30·15	62	NE	6	bc	30·06	—·20	65	61	+ 5	ENE	5	b	4	bc	*	65	59	—
GERMANY & HOLLAND.	North Foreland	30·21	59	N	6	bc	30·14	—·17	64	60	+ 6	E	5	b	5	c,bc	*	64	57	—
	London (Brixton) ...	30·21	65	ENE	3	bc	30·13	—·18	68	62	+ 8	E	2	b	*	bc,b	5·6*	68	53	—
	Oxford	30·21	62	NE	2	b	30·15	—·18	62	58	+ 6	NNE	2	b	*	b	*	70	52	—
	Cambridge ...	30·24	67	E	3	b	30·18	—·18	66	60	+ 8	E	1	b	*	b	9·7	70	49	—
	Yarmouth ...	30·26	59	ENE	4	bc	30·19	—·16	61	58	+ 4	ENE	5	b	4	bc	*	61	55	—
	Cuxhaven ...	30·28	66	E	4	b	30·26	—·04	60	58	+ 2	E	3	b	*	b	*	70	58	—
	Berlin	30·23	65	NNW	3	b	30·14	—·12	62	57	0	NNW	3	bc	*	b	*	73	55	—
	Wiesbaden ...	*	*	*	*	*	30·12	—·13	64	59	+ 4	NE	4	b	*	*	*	72	59	—
	Munich... ..	30·15	59	NE	2	b	30·07	—·15	58	54	— 3	E	5	bc	*	b	*	68	46	—
	The Helder ...	30·23	64	NE	4	b	30·23		64	57		E	3	b	2	b	*	64	52	—
BELGIUM.	Brussels ...	*	*	*	*	*	30·09	—·20	66	59	+ 7	NE	2	b	*	b	*	71	53	—
	Cape Gris Nez...																*			
	Paris	30·02	73	N	3	b	29·97	—·20	64	57	0	NE	3	b	*	b	*	78	56	—
	Brest	30·02	75	NE	2	b	29·94	—·16	60	57	— 3	ENE	3	b	2	b	*	82	54	—
	Lorient... ...	29·98	73	NE	4	b	29·93	—·16	61	59	— 2	ENE	4	b	2	b	*	82	57	—
FRANCE &	Rochefort ...	29·93	71	S	4	r	29·88	—·12	66	63	— 2	NE	3	b	*	bc,r	*	95	63	0·51
	Belfort	29·92	72	NE	5	b	29·91	—·19	61	54	+ 1	NE	5	0	*	b	*	75	54	—
	Lyons	29·95	67	WNW	1	b	29·87	—·15	62	62	— 6	S	1	f	*	2,2r	*	89	62	0·63
	Nice	29·88	78	2	0	c	29·80	—·16	77	69	— 3	2	0	b	1	c	*	90	72	—
	Perpignan ...	29·84	82	NNE	1	0	29·81	—·17	74	70	— 6	SW	1	0	*	0	*	88	65	—
	Biarritz ...	29·90	75	NNW	3	b	29·82	—·17	71	70	0	WSW	2	0	2	b	*	81	70	—
PENINSULA.	Corunna ...	29·90	71	N	2	b	29·85	—·16	61	60	— 7	NNW	1	f	3	b	*	77	55	—
	Lisbon	29·91	65	NW	4	b	29·88	—·08	66	61	0	NNW	2	c	*	b	*	82	63	—
	Azores (P. Delgada)	30·07	68	N	3	bc	30·07	+·05	65	62	— 4	N	4	c	2	bc	*	72	63	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

* up to 6·17 pm.

Bright Sunshine yesterday Southport 14·3 *hrs;*

WEATHER CHARTS

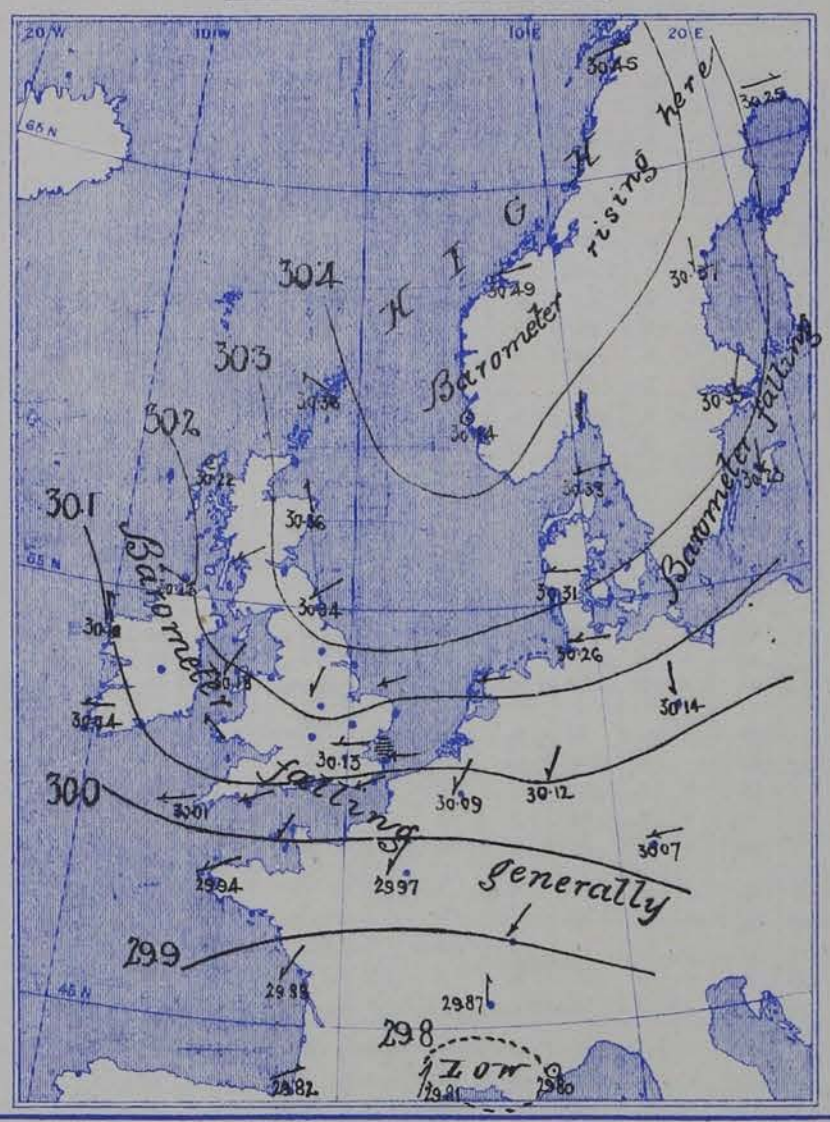
FOR TUESDAY, 13TH JULY, 1897.

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ⟶⟶ ; *Force 5 to 7* ⟶ ; } Calm ⊙
Force 8 to 10 ⟶ ; *Force 1 to 4* ⟶ ; }

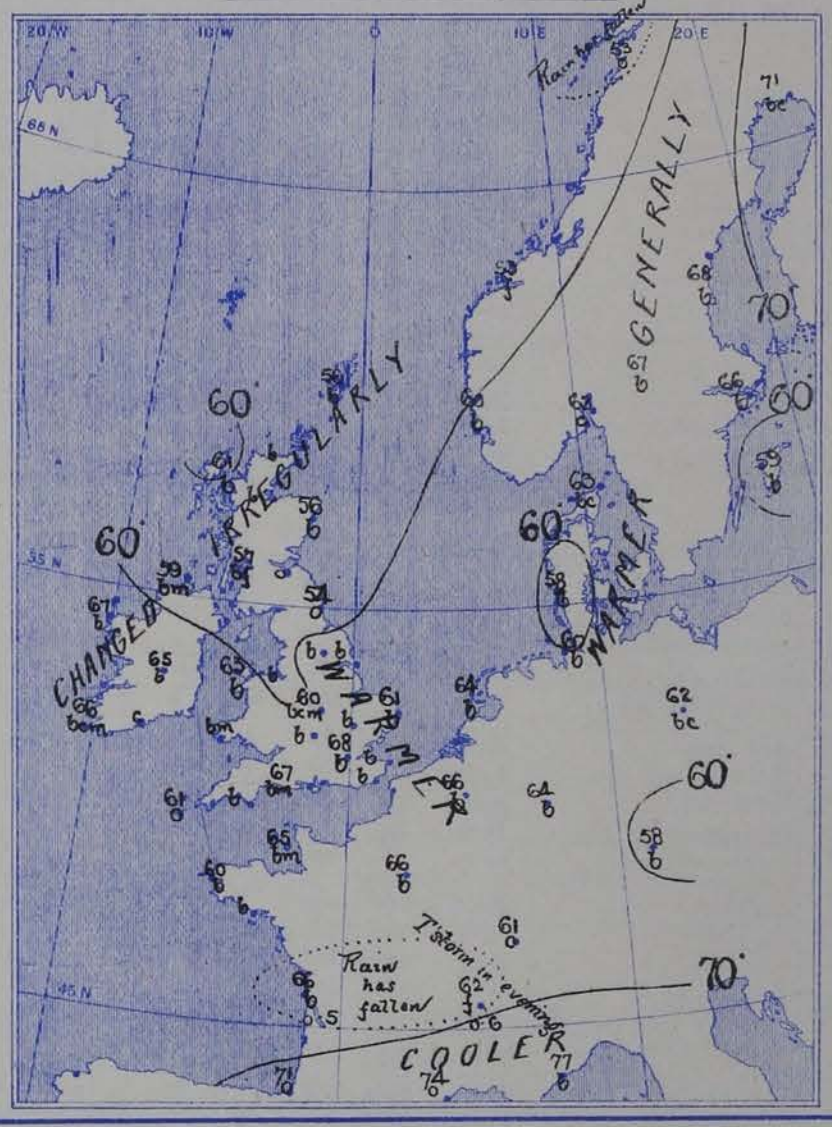
SEA—Rough ▤ ; *High* ▨



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL— *A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.*



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 56	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 73	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 59	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30.4 ins. and upwards over Norway; 30.1 ins. and upwards in an anticyclone extending from N^th. Europe over the whole of our Islands. Lowest 29.8 ins. and less in a shallow depression lying over the S. of France. Gradients slight. Barometer falling at all but the Norwegian stations.

TEMPERATURE — Highest (1) 77° at Nice, 74° at Perpignan, 71° at Biarritz, and 68° in London; (2) 71° at Haparanda, and 68° at Hernösand. Lowest 53° at Bodö and Christiansund, 54° at Leith and Shields, 55° at Wick and 56° at Dunnemouth H^d. & Aberdeen. During yesterday the thermometer rose to 70° and upwards at several of our W^rn. and S^rn. stations, to 75° at Belmullet and Valencia (Ireland) and to 76° at Parsonstown.

WIND — E^ly. to NE^ly. over the greater part of England, France, the Netherlands, Denmark and Germany, and fresh in force on our own south and southeast coasts. SE^ly. in Ireland and the N. of Scotland, variable on the Norwegian coast; N^ly. in Sweden. Calm or light from the SW^nd. in the extreme south of France.

WEATHER — Fine over W^rn. Europe as a whole, but dull at Scilly, and also in the extreme S. of France. Fog was reported at Ardrossan, as well as at Christiansund and Lyons. No rain fell yesterday in our islands but rather large quantities occurred at Rochefort and Lyons, with a thunderstorm at the latter station.

SEA — Slight or smooth generally, but moderate on the east and southeast coasts of England, and rather rough at the North Foreland.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The barometer continues to fall generally, but there are at present no indications of the formation of any depression in our own immediate neighbourhood. Fine dry weather is therefore likely to continue for a time in most districts.

FORECASTS

For the 24 hours ending at NOON on 14th. JULY 1897.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Light breezes chiefly SE^ly.; fine generally.
1 SCOTLAND EAST	
2 ENGLAND N.E.	NE^ly. winds, light; fine, warm.
3 ENGLAND EAST	Same as No. 5.
4 MIDLAND COUNTIES	Same as No. 2.
5 ENGLAND SOUTH	E^ly. and NE^ly. winds, moderate or fresh; fine, warm.
6 SCOTLAND WEST	Same as No. 2.
7 ENGLAND N.W.	
8 ENGLAND S.W.	E^ly. winds, fresh; fair generally
9 IRELAND NORTH	E^ly. and SE^ly. winds, moderate; fine, warm.
10 IRELAND SOUTH	
WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·46	67	55	W	2	b	1
Sumburgh Head	30·38	58	56	S	1	b	2
Stornoway ...	30·27	67	64	S	2	b	2
Aberdeen	30·37	60	54	SSE	4	bq	2
Shields	30·37	59	57	ESE	4	b	3
Ardrossan	30·26	71	69	W	1	bm	0
Malin Head ...	30·24	63	58	ESE	3	b	1
Belmullet	30·21	73	72	ESE	1	b	*
Holyhead	30·25	71	65	NW	2	b	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·14	73	64	SE	2	cm	3
Scilly	30·15	63	59	E	5	o	2
Jersey	30·13	70	64	ENE	5	b	4
Hurst Castle ...	30·19	71	66	E	4	bc	2
Dungeness ...	30·19	63	57	ENE	6	bc	5
North Foreland	30·27	61	56	NE	4	c	4
London (Westminster)	30·26	66	59	ENE	3	bc	*
Yarmouth ...	30·31	61	56	ENE	4	bc	3
Rochefort ...	29·96	93	82	ENE	3	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine over the greater part of our Islands and the Continent, but cloudy or dull at many of the English stations. Dull also over Austria, Poland and the W.rn and central parts of Russia. Sky clearing later over England and weather remaining very dry over our islands generally. Considerable amounts of rain falling at some of the more central stations in France, with a thunderstorm at Lyons.

Temperature fallen in England and also in many parts of Germany, Austria and Italy, risen in most other localities. Morning readings highest 85° at Brindisi, 83° at Barcelona, and 82° at Toulon and Leghorn, above 75° at many of the Mediterranean and Adriatic stations, and above 65° in some parts of our own W.rn coasts. Lowest (1) 53° at Bodo, and 54° at Christiansund; (2) 55° at Spurn Hd. and Loughborough; (3) 56° at Breslau and Cracow. Rising during day to 70° and upwards at several of our W.rn and S.rn stations, and to 76° at Parsonstown, exceeding 80° in the W. and S. of France, and touching 90° at Nice.

Wind N.ly over Sweden, W.rn Russia and Germany, and strong in force at some of the Baltic stations, with a gale at Wisby. NE.ly or E.ly over Denmark, the Netherlands, the E. and S. of England and the greater part of France; E.ly or SE.ly in Ireland; calm or S.ly in the W. and N. of Scotland. Rather variable over Italy and the Spanish peninsula. Subsequently becoming very variable in the W. of France; no important change occurring elsewhere.

Barometer highest 30.4 ins. and upwards over the central and southern parts of Scandinavia; 30.2 ins. and upwards in an anticyclone extending from N.rn Europe over the whole of our Islands, the Netherlands and Germany. Lowest 29.8 ins. and less (apparently) in a depression over the Black Sea. General fall of the barometer taking place over W.rn Europe during day and shallow depressions appearing respectively over the Bay of Biscay and off the Portuguese coasts.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Wednesday 14th July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·25	72	L	0	b	30·25	·00	72	70	+ 1	N	2	b.	*	b	*	81	54	—
	Hernösand ...	30·28	66	NE	2	b	30·23	— ·14	70	60	+ 2	NE	4	b	*	b	*	81	57	—
	Stockholm ...	30·21	66	N	2	b	30·07	— ·26	72	61	+ 6	NNE	2	b	*	b	*	73	50	—
	Wisby	30·11	61	NNE	6	b	29·96	— ·27	66	60	+ 7	ENE	4	o	*	b	*	66	52	—
	Karlstad ...	30·19	73	NE	2	c	30·12	— ·23	70	59	+ 3	N	2	b	*	c	*	*	*	—
	Bodö	30·42	51	W	1	f	30·37	— ·08	50	49	— 3	N	2	f	1	f	*	59	48	—
	Christiansund ...	30·41	58	ENE	3	f	30·28	— ·21	53	51	0	ENE	4	f	3	f	*	59	50	—
	Skudesnaes ...	30·24	59	N	4	b	30·17	— ·27	66	62	+ 6	L	0	b	0	b	*	70	54	*
	Færder (Christiania Fjord)	30·21	73	L	0	0	30·15	— ·23	67	62	+ 5	NNE	1	b	1	0	*	73	62	—
	Skagen (The Scaw)	30·20	62	NNE	1	b	30·11	— ·27	64	59	+ 1	E	1	b	0	b	*	70	59	—
	Fanö	30·15	63	NE	1	b	30·03	— ·28	58	56	0	L	0	b	*	b	*	75	54	—
BRITISH ISLANDS.	Sumburgh Head	30·31	55	NE	2	bc	30·22	— ·14	58	55	+ 2	S	1	b	2	bc	*	58	45	—
	Stornoway ...	30·17	71	N	2	b	30·15	— ·07	60	57	— 1	S	1	b	1	b	14·9	72	50	—
	Wick	30·25	55	S	3	b	30·22	— ·09	60	56	+ 5	S	1	b	0	b	*	60	50	—
	Nairn	30·27	75	WSW	2	b	30·18	— ·07	63	59	+ 4	L	0	b	0	b	*	75	43	—
	Aberdeen ...	30·30	53	SE	1	bf	30·18	— ·18	63	53	+ 7	NE	2	b	1	b.f	11·2	63	43	—
	Leith	30·24	56	ENE	3	m	30·18	— ·15	59	55	+ 5	SE	1	b	*	m	*	62	50	—
	Shields	30·25	59	NNE	2	b	30·16	— ·18	53	53	— 1	NNE	2	o	3	b	*	61	48	—
	Spurn Head ...	30·17	59	ENE	4	b	30·08	— ·16	61	59	0	NE	4	b	4	b.w	*	63	53	—
	York	30·20	69	ENE	2	b	30·16	— ·12	66	55	+ 2	NNE	1	b	*	b	14·7	73	47	—
	Loughborough ...	30·12	71	ENE	5	b	30·07	— ·16	62	57	+ 2	NE	2	bw	*	bq, bm	*	76	44	—
	Ardrossan ...	30·15	68	ESE	3	bm	30·12	— ·14	59	58	+ 2	NE	3	bm	1	bm	*	70	50	—
	Malin Head ...	30·10	63	SE	4	bm	30·06	— ·10	59	56	0	ESE	5	bm	2	bm	*	68	54	—
	Belmullet ...	30·03	74	SE	1	b	29·98	— ·12	65	?64	— 2	ESE	3	b	*	b	*	75	56	—
	Donaghadee ...	30·15	63	E	4	b	30·10	— ·14	59	55	+ 1	E	4	b	2	b	*	65	52	—
	Liverpool (Bidston)	30·09	72	E	5	bm	30·05	— ·16	65	55	+ 5	E	3	b	?	bm	*	74	54	—
	Holyhead ...	30·07	69	E	3	b	30·03	— ·15	62	58	— 1	ENE	4	bm	3	b	*	72	54	—
	Parsonstown ...	30·04	72	SE	1	b	29·97	— ·16	67	59	+ 2	SE	1	b	*	b	12·6	74	57	—
	Valencia ...	29·96	70	ESE	3	bcm	29·82	— ·22	66	59	0	E	3	cm	3	bm, bcm	13·5	70	59	—
	Roche's Point ...	30·02	65	ESE	2	b	29·93	— ·18	64	59	+ 4	ESE	5	b	4	b	*	66	58	—
	Pembroke (St. Ann's Hd.)	30·00	72	E	3	b	29·93	— ·22	66	64	+ 6	SE	5	b	3	b	14·2	72	57	—
	Scilly	29·93	66	E	4	bc	29·82	— ·19	64	60	+ 3	E	5	c	2	c, bc	7·6	68	58	—
	Prawle Point ...	29·96	63	ENE	6	b	29·89	— ·16	63	?63	+ 2	ENE	5	b	4	b	*	70	57	—
	Jersey (St. Aubin's)	29·91	70	NE	5	b	29·86	— ·15	68	62	+ 3	ENE	4	bm	3	b	*	75	60	—
	Hurst Castle ...	30·00	71	ENE	3	b	29·94	— ·15	67	64	0	ENE	3	bm	2	b	*	76	56	—
	Dungeness ...	29·99	66	NE	6	b	29·94	— ·12	65	62	0	NE	4	b	3	b	*	68	60	—
	North Foreland	30·06	63	NE	5	b	30·00	— ·14	64	61	0	E	4	b	4	b	*	66	60	—
	London (Brixton) ...	30·05	72	ENE	3	bv	30·00	— ·13	69	60	+ 1	ENE	2	b	*	b	14·0	77	55	—
	Oxford	30·06	66	ENE	3	b	29·99	— ·16	65	59	+ 3	NE	3	b	*	b	*	76	50	—
	Cambridge ...	30·11	73	E	4	b	30·03	— ·15	66	60	0	E	1	b	*	b	14·6	80	46	—
	Yarmouth ...	30·12	63	ENE	5	b	30·04	— ·15	62	60	+ 1	ENE	4	b	3	b	*	65	57	—
GERMANY & HOLLAND.	Cuxhaven ...	30·12	66	NE	2	b	30·01	— ·25	64	60	+ 4	NW	1	bc	*	b	*	72	60	—
	Berlin	30·04	68	NNW	1	bc	29·93	— ·21	63	55	+ 1	NW	3	c	*	bc	*	77	55	—
	Wiesbaden ...	*	*	*	*	*	29·97	— ·15	65	60	+ 1	NE	1	b	*	*	*	75	61	—
	Munich	29·98	59	E	5	c	29·94	— ·13	60	56	+ 2	E	5	b	*	c	*	70	48	—
	The Helder ...	30·10	66	NE	5	b	30·04	— ·19	65	61	+ 1	ENE	1	b	1	b	*	66	63	—
FRANCE & BELGIUM.	Brussels ..	*	*	*	*	*	29·98	— ·11	66	60	0	ENE	2	b	*	c	*	74	54	—
	Cape Gris Nez ...	29·98	62	E	5	b	29·95		60	57		E	2	b	2	b	*	66	55	—
	Paris	29·91	75	ENE	3	b	29·89	— ·08	66	59	+ 2	NE	1	b	*	b	*	79	55	—
	Brest	29·79	74	E	1	b	29·76	— ·18	65	58	+ 5	E	3	b	2	b	*	81	57	—
	Lorient	29·82	74	W	2	b	29·78	— ·15	64	64	+ 3	E	4	b	3	b	*	86	59	—
	Rochefort ...	29·80	75	NW	3	b	29·75	— ·13	65	64	— 1	E	4	bc	*	b	*	93	63	—
	Belfort	29·82	67	NE	3	c	29·84	— ·07	61	55	0	NE	4	b	*	c	*	74	54	—
	Lyons	29·78	77	N	1	bc	29·80	— ·07	65	61	+ 3	ENE	1	c	*	bc	*	82	61	0·04
	Nice	29·76	?	L	0	c	29·81	+ ·01	68	64	— 9	L	0	bc	1	c	*	81	61	0·67
	Perpignan ...	29·74	83	ENE	2	b	29·76	— ·05	74	72	0	S	1	c	*	b	*	88	66	—
	Biarritz ...	29·72	76	NNE	4	b	29·67	— ·15	72	71	+ 1	SE	3	c	2	b	*	82	68	—
PENINSULA.	Corunna ...																*			
	Lisbon	29·79	66	NW	4	c	29·86	— ·02	66	61	0	WSW	4	c	*	c	*	77	63	0·04
	Azores (P. Delgada)	30·06	63	NNW	3	c	29·84	— ·23	65	64	0	SW	5	o	2	c	*	70	61	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

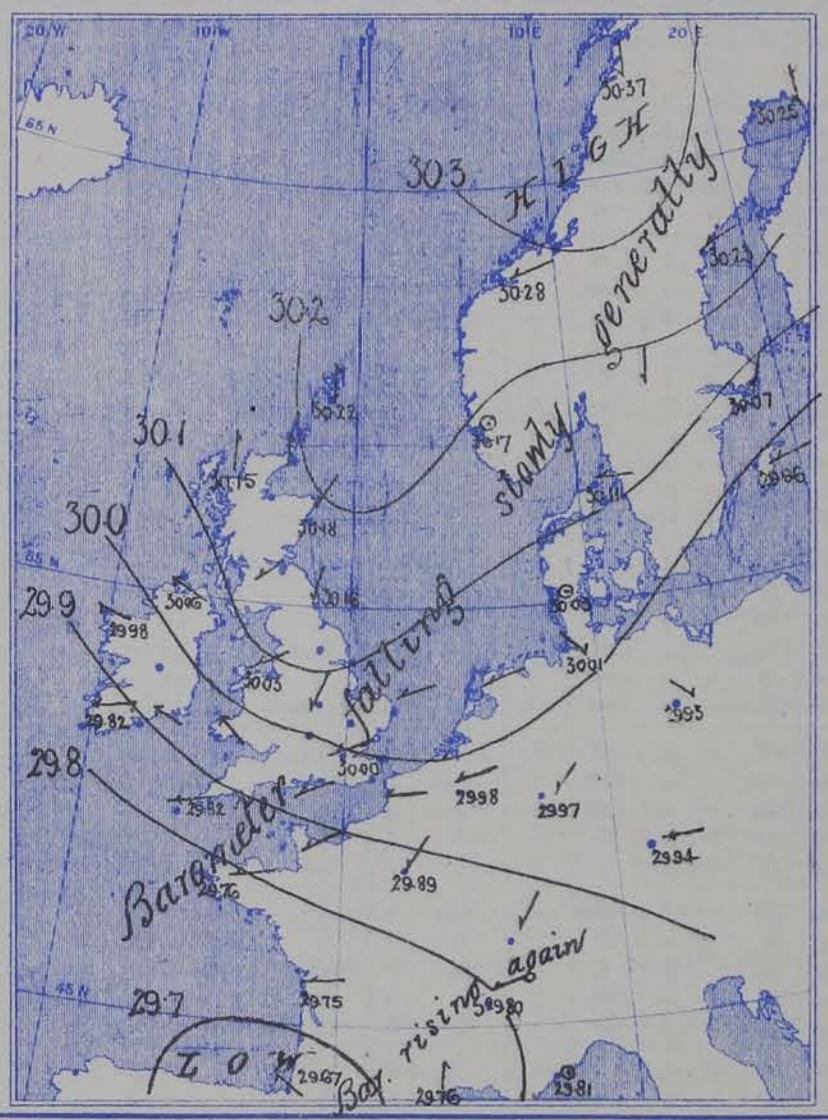
Bright Sunshine yesterday Southport 14·6 hrs;

WEATHER CHARTS

FOR WEDNESDAY, 14TH JULY, 1897.

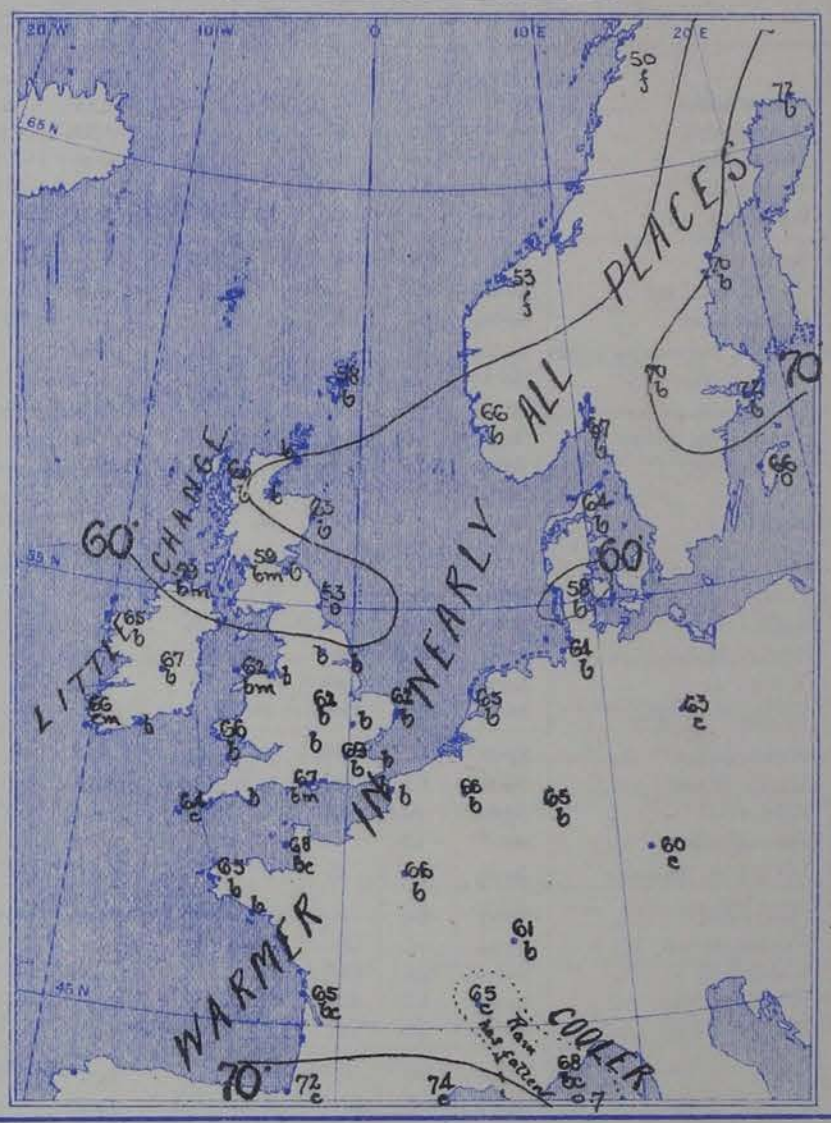
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·3 ins. and upwards over the N^rn. parts of Norway; 30·0 ins. and upwards in an anticyclone extending from Scandinavia over all but the S^rn. and SW^rn. parts of the United Kingdom.
Lowest 29·7 ins. and less in a shallow depression lying over the NE. of Spain and the extreme SW. of France.
Gradients slight. Barometer falling generally, but rising a little in the E. and S. of France.

TEMPERATURE

Highest (1) 74° at Perpignan, 72° at Biarritz, 69° in London, and 68° at Jersey and Nice; (2) 72° at Haparanda and Stockholm, and 70° at Hernösand and Karlstad.
Lowest 50° at Bodö, 53° at Christiansund and Shields, 58° at Sumburgh Hd., and 59° at Leith, Aldrossan, Malin Head and Donaghadee.
During yesterday the thermometer rose to between 70° and 75° in many parts of the United Kingdom, to 76° at Loughborough and Oxford, to 77° in London, and to 80° at Cambridge.

WIND

E^ly. over the greater part of our Islands and the neighbouring parts of the Continent, and fresh in force on our own west and southwest coasts. Light from the S^wd. in the N. of Scotland. N^ly. or NE^ly. in Scandinavia; light from the NW^wd. over N. Germany.

WEATHER

Fine over W^rn. Europe generally, but dull at the mouth of the Tyne, and foggy on the W. coast of Norway. Rain fell yesterday at some of the southern French stations,—rather heavily at Nice, but in all other parts of our area the weather remained very dry.

SEA

Moderate on the more exposed parts of our E^rn. and S^rn. coasts, but slight or smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any important change. A slight excess in the rate of rain fall on our southwest coasts may, however, indicate the advance of a depression towards that neighbourhood.

FORECASTS

For the 24 hours ending at NOON on 15th JULY 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	S^ly and SE^ly winds, light; fine generally.	6 SCOTLAND WEST 7 ENGLAND N.W.	Same as N° 2.
2 ENGLAND N.E.	NE^ly winds, light or moderate; fine, warm.	8 ENGLAND S.W. 9 IRELAND NORTH	E^ly and SE^ly winds, fresh; fair generally.
3 ENGLAND EAST	Same as N° 5.		
4 MIDLAND COUNTIES	Same as N° 2.	10 IRELAND SOUTH	E^ly and SE^ly winds, fresh; fair at first, some rain later.
5 ENGLAND SOUTH	E^ly and NE^ly winds, moderate or fresh; fine; warm.	WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·34	69	60	SW	4	b	1
Sumburgh Head	30·34	55	54	ESE	2	bc	3
Stornoway	30·18	68	61	SSE	1	b	1
Aberdeen	30·33	58	55	SSE	2	b	2
Shields	30·29	58	51	NE	3	b	3
Ardrossan	30·19	72	68	S	3	b	2
Malin Head ...	30·13	62	58	ESE	5	b	2
Belmullet	30·07	75	?74	SE	1	b	*
Holyhead	30·13	70	65	E	4	b	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·00	69	61	ESE	4	bm	4
Scilly	29·98	65	61	E	4	c	1
Jersey	29·94	70	65	NE	5	b	3
Hurst Castle ...	30·02	76	66	E	4	b	3
Dungeness ...	30·03	69	61	NE	6	b	5
North Foreland	30·11	65	61	ENE	5	b	5
London (Westminster)	30·09	74	59	E	4	b	*
Yarmouth ...	30·07	65	60	ENE	4	b	4
Rochefort ...	29·84	89	79	NE	2	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine over the greater part of our islands and the Continent, but dull in the extreme south of France, the N^rn. parts of Italy and the Adriatic, as well as over W^rn. and central Russia, with rain at Trieste, Cracow and Moscow. Rain falling later at some of the S^rn. French stations, – rather heavily at Nice, but weather remaining very dry over western Europe as a whole.

Temperature changed very irregularly. Morning readings highest 84° at Algiers, 81° at Barcelona and Spa, and 80° at Zeghouan and Rome, above 75° in many parts of S^rn. Europe, above 65° in the W. of Ireland and the SE. of England, as well as in Sweden and Finland, and touching 71° at Haparanda. Lowest 53° at Bodö and Christiansund, 54° at Leith and Shields, and 55° at Wick. Rising during day to between 70° and 75° at many of our W^rn. and N^rn. stations, to between 75° and 80° over the inland parts of England, exceeding 80° over the S^rn. parts of France, and reaching 88° at Perpignan.

Wind N^ly. in Sweden; NE^ly. over Denmark, Germany, the Netherlands and the greater part of England and France, and fresh in force on our east and south coasts; E^ly. or SE^ly. in Ireland; SE^ly. or S^ly. in the N. of Scotland; variable in the W. of Norway. N^ly. on the Portuguese coasts, W^ly. or SW^ly. in the extreme S. of France; variable in Italy. N^ly. winds setting in later in the west of Norway; no important change occurring elsewhere.

Barometer highest 30·4 ins. and upwards in Norway; 30·1 ins. and upwards in an anticyclone extending from N^rn. Europe over all but the extreme S^rn. and SW^rn. parts of our Islands. Lowest 29·8 ins. and less in two small shallow depressions lying respectively over the NE. of Spain and in the neighbourhood of the Maritime Alps. General fall of barometer taking place over W^rn. Europe during day, but distribution of pressure remaining unchanged.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Thursday 15th July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·11	74	L	0	b	30·17	− ·08	75	67	+ 3	L	0	b	*	b	*	86	52	—
	Hernösand ...	30·06	70	NE	4	bc	30·10	− ·13	65	60	− 5	W	2	bc	*	bc	*	82	54	—
	Stockholm ...	29·95	61	NNE	4	0	29·97	− ·10	67	61	− 5	ESE	6	b	*	0	*	79	57	0·04
	Wisby	29·86	60	ENE	4	0	29·89	− ·07	63	61	− 3	SE	4	0	*	0	*	68	54	0·04
	Karlstad ...	29·95	74	NNE	4	b	29·95	− ·17	68	61	− 2	NE	4	c	*	b, r	*	*	*	0·12
	Bodö	30·25	49	N	2	f	30·12	− ·25	55	52	+ 5	L	0	b	0	f	*	55	45	—
	Christiansund ...	30·15	57	ENE	3	f	30·10	− ·18	54	52	+ 1	NE	3	f	2	f	*	63	52	—
	Skudesnaes ...	29·99	66	NNW	2	c	29·96	− ·21	68	63	+ 2	L	0	b	0	c	*	77	57	*
	Færder (Christiania Fjord)	29·96	77	WNW	1	c	29·94	− ·21	66	63	− 1	NE	2	0	1	c	*	77	66	—
	Skagen (The Scaw)	29·92	65	N	2	bc	29·88	− ·23	64	60	0	ENE	3	c	0	bc	*	73	61	0·04
	Fanö	29·90	62	L	0	b	29·77	− ·26	64	61	+ 6	NNE	3	r	*	b	*	75	58	—
BRITISH ISLANDS.	Sumburgh Head	30·13	64	NE	1	b	30·01	− ·21	62	57	+ 4	NE	4	bc	4	b	*	66	54	—
	Stornoway ...	30·08	70	E	2	b	30·08	− ·07	64	59	+ 4	E	2	bc	2	b	15·1	73	55	—
	Wick	30·12	57	S	1	b	30·08	− ·14	66	63	+ 6	NW	1	b	0	b	*	70	45	—
	Nairn	30·08	62	? L	0	b	30·06	− ·12	64	63	+ 1	W	1	b	1	b	*	68	42	—
	Aberdeen ...	30·10	61	NE	2	b	30·02	− ·16	65	55	+ 2	NW	4	bq	2	b	16·2	66	48	—
	Leith	30·08	60	ESE	3	b	30·02	− ·16	67	57	+ 8	NW	1	b	*	b	*	67	48	—
	Shields	30·07	55	NE	2	b	30·02	− ·14	56	55	+ 3	N	3	c	3	c, bc, f	*	59	49	—
	Spurn Head ...	30·02	58	NNE	4	b	29·98	− ·10	56	56	− 5	NNW	4	c	3	b, f	*	65	51	—
	York	30·03	70	ENE	1	b	30·00	− ·16	60	50	− 6	N	1	b	*	b	15·9	74	47	—
	Loughborough ...	29·98	71	ENE	5	b	30·01	− ·06	63	56	+ 1	L	0	bmw	*	bq, bm	*	78	42	—
	Ardrossan ...	30·01	70	NNE	3	bmw	30·03	− ·09	62	60	+ 3	WNW	1	b	1	bm	*	73	52	—
	Malin Head ...	30·00	62	ESE	3	bm	30·03	− ·03	60	57	+ 1	E	2	bm	1	bm	*	63	54	—
	Belmullet ...	29·90	72	ESE	3	b	29·99	+ ·01	68	?	+ 3	ENE	1	b	*	b	*	73	57	—
	Donaghadee ...	30·00	65	NNE	4	b	30·06	− ·04	60	56	+ 1	NNW	3	b	1	b	*	68	51	—
	Liverpool (Bidston)	29·94	71	E	4	bcmw	30·01	− ·04	63	55	− 2	ESE	1	bc	1	bcmw	*	76	54	—
	Holyhead ...	29·93	69	E	3	b	29·99	− ·04	67	63	+ 5	NE	1	b	0	b	*	72	54	—
	Parsonstown ...	29·89	74	SE	2	b	29·99	+ ·02	68	60	+ 1	L	0	b	*	b	13·1	75	55	—
	Valencia ...	29·79	72	E	4	cm	29·87	+ ·05	69	62	+ 3	E	3	bcm	3	bc, cm	11·6	76	64	—
	Roche's Point ..	29·83	66	ESE	5	bm	29·95	+ ·02	65	60	+ 1	ESE	5	b	4	b	*	68	59	—
	Pembroke (St. Ann's Hd.)	29·84	71	SE	4	b	29·94	+ ·01	65	63	− 1	ESE	4	b	3	b	13·7	73	58	—
	Scilly	29·77	66	ENE	5	c	29·86	+ ·04	63	60	− 1	E	5	c	2	c	8·1	68	59	—
	Prawle Point ...	29·82	63	ENE	6	bc	29·91	+ ·02	65	?	+ 2	ENE	5	b	4	bc	*	68	59	—
	Jersey (St. Aubin's)	29·77	72	ENE	5	bc	29·87	+ ·01	68	62	0	E	4	bmw	3	bc, t	*	76	61	—
	Hurst Castle ...	29·85	74	ENE	3	b	29·92	− ·02	68	63	+ 1	ENE	3	bmw	2	bc, b	*	76	56	—
	Dungeness ...	29·85	66	NE	5	b	29·91	− ·03	68	62	+ 3	NE	3	b	2	b	*	69	59	—
GERMANY & HOLLAND.	North Foreland	29·93	63	NE	4	b	29·96	− ·04	60	58	− 4	N	4	bc	3	b	*	67	57	—
	London (Brixton) ...	29·92	73	NE	3	b	29·96	− ·04	65	56	− 4	ENE	2	b	*	b	13·7	80	53	—
	Oxford	29·93	67	E	2	b	29·97	− ·02	62	55	− 3	NE	2	b	*	b	*	78	49	—
	Cambridge ...	29·94	74	E	2	b	30·00	− ·03	54	52	− 12	N	3	0	*	b, f	15·6	80	46	—
	Yarmouth ...	29·98	64	NE	4	b	29·95	− ·09	60	56	− 2	N	3	b	3	b	*	65	52	—
	Cuxhaven ...	29·90	68	N	2	c	29·79	− ·22	64	61	0	NW	3	0	*	c	*	72	63	—
	Berlin	29·81	58	WNW	3	0	29·75	− ·18	60	57	− 3	WNW	1	0	*	0	*	72	57	—
	Wiesbaden ...	*	*	*	*	*	29·87	− ·10	61	58	− 4	NE	1	b	*	*	*	75	54	—
	Munich... ..	29·90	62	L	0	b	29·89	− ·05	62	59	+ 2	E	1	b	*	b	*	70	50	—
	The Helder ...	29·94	64	NNE	2	bc	29·90	− ·14	58	57	− 7	NNW	1	0	1	bc	*	72	57	—
BELGIUM.	Brussels ...	*	*	*	*	*	29·90	− ·08	64	59	− 2	NE	1	b	*	b	*	77	53	—
	Cape Gris Nez...																*			
	Paris														*		*			
	Brest	29·71	76	NNW	1	b	29·84	+ ·08	68	62	+ 3	E	1	b	1	b	*	84	61	—
	Lorient... ...	29·72	79	SE	1	c	29·82	+ ·04	66	64	+ 2	NE	2	bc	2	c	*	86	59	?—
FRANCE &	Rochefort ...	29·65	81	E	5	c	29·76	+ ·01	67	67	+ 2	N	3	c	*	c, zz	*	93	65	—
	Belfort	29·73	70	NE	2	bc	29·80	− ·04	54	54	− 7	E	2	r	*	bc	*	76	54	0·32
	Lyons	29·67	76	S	1	p	29·77	− ·03	71	63	+ 6	NW	1	b	*	p	*	87	64	—
	Nice	29·80	70	SW	2	bc	29·76	− ·05	73	67	+ 5	E	1	c	2	bc	*	77	64	—
	Perpignan ...	29·66	75	E	4	0	29·79	+ ·03	70	65	− 4	NW	3	0	*	0	*	84	68	—
	Biarritz ...	29·65	71	NNE	3	t	29·86	+ ·19	67	64	− 5	SW	6	0	4	zr	*	91	63	0·75
PENINSULA.	Corunna ...																*			
	Lisbon	29·90	65	SSW	4	0	29·99	+ ·13	67	62	+ 1	SW	3	bc	*	0	*	72	64	0·04
	Azores (P. Delgada)	29·59	66	W	5	0	29·70	− ·14	64	57	− 1	WNW	4	bc	6	c	*	70	61	0·12

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

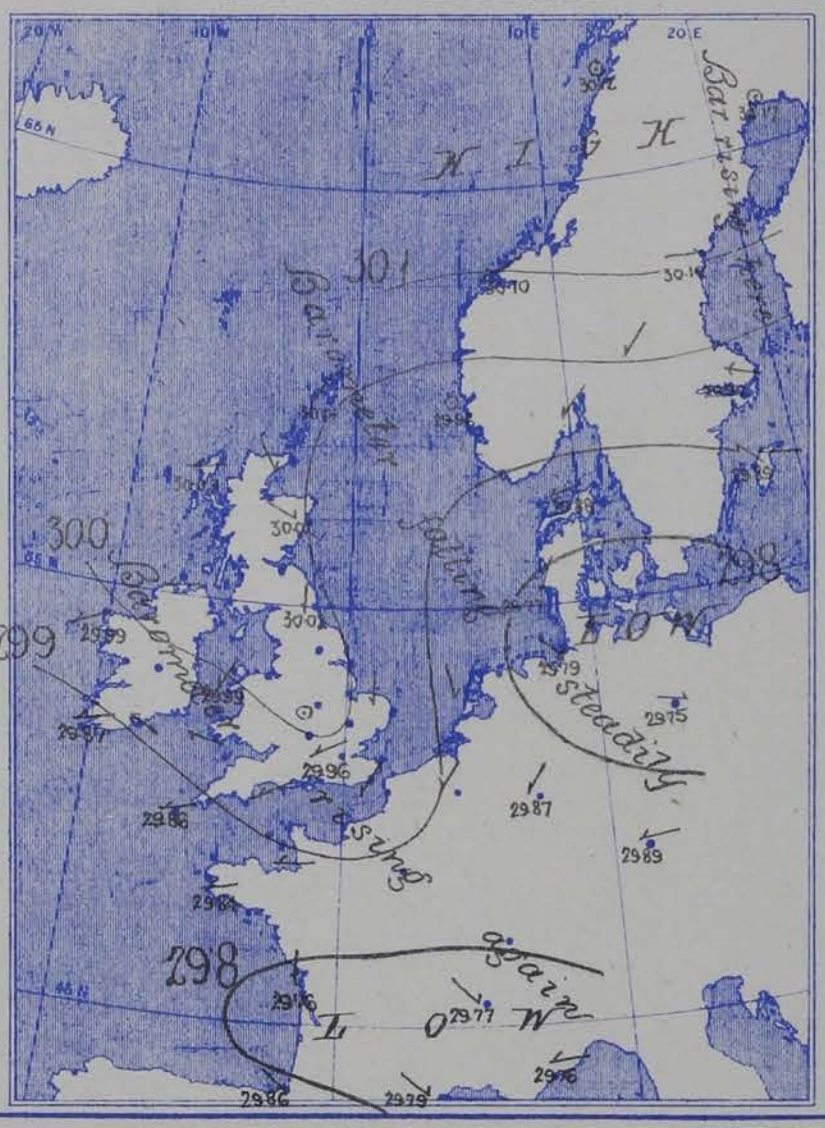
Bright Sunshine yesterday Southport 14·4 *hrs;*

WEATHER CHARTS

FOR THURSDAY, 15th JULY, 1897.

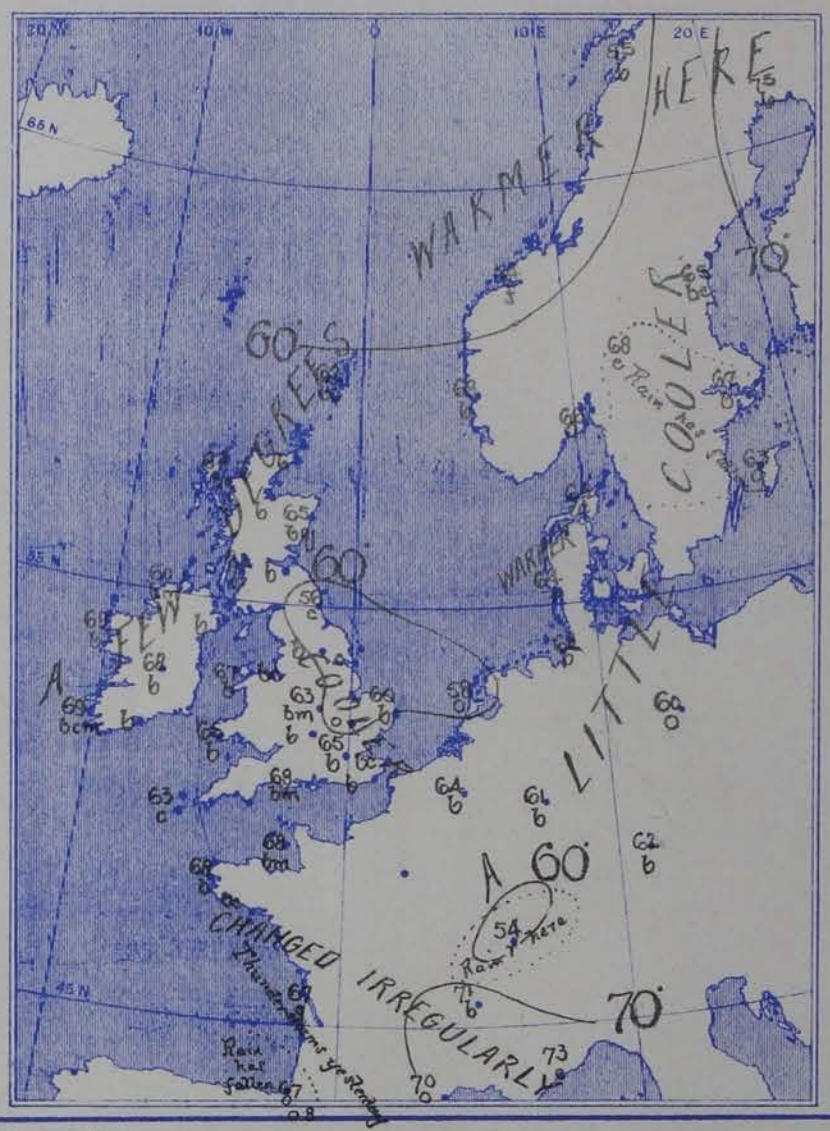
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 73	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 55	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 ins. and upwards over the Nrn. parts of Scandinavia; 30.0 ins. and upwards in an anticyclone extending thence over all the more Nrn. parts of our Islands; 29.9 ins. and upwards in Portugal.
Lowest 29.8 ins. and less in a shallow depression over Denmark and N. Germany, and also in another area over the southern parts of France.
Gradients slight. Barometer rising a little over France and the W. and S. of our Islands, as well as in Sweden, but falling elsewhere.

TEMPERATURE

Highest (1) 73° at Nice, 71° at Lyons, and 70° at Perpignan; (2) 75° at Haparanda, 68° at Karlstad and Skudesnaes, and 67° at Leith.
Lowest (1) 54° at Christiansund, and 55° at Bodö; (2) 54° at Cambridge, and 56° at Shields & Spurn Hd.
During yesterday the thermometer rose to 75° and upwards at several of our central and southern stations, and to 80° in London and at Cambridge.

WIND

Light to moderate from the Nnd. or NWnd. on our east coasts; but Ely. or NEly. over the southern parts of the Kingdom and the west of France, and variable on our northwest coasts.
Calm over the northern, but Ely. over the southern parts of Scandinavia; light from the Wnd. or NWnd. in north Germany, and also at many of the southern French stations, but strong from SW. at Biarritz.

WEATHER

Fine over Wrn. Europe as a whole, but dull over Denmark, Holland and N. Germany, with rain at Faröe; dull also in the extreme south of France.
Since yesterday morning a little rain has fallen in the south of Sweden, and larger amounts at some of the French stations, but in other parts of our area the weather has remained very dry. Thunderstorms have occurred at Rochefort and Biarritz and in the neighbourhood of Lyons, and distant thunder was heard last evening at Jersey.

SEA

Slight or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any important change in the weather. The shallow depression over Denmark and N. Germany is scarcely likely to affect the conditions over our islands.

FORECASTS

For the 24 hours ending at NOON on 16TH JULY. 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NEly. winds, light, fine generally.	6 SCOTLAND WEST	Light breezes, chiefly Nly.; fine, warm.
1 SCOTLAND EAST	Nly. and NWly. winds, moderate, fair generally.	7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	Ely. winds, moderate, fine, warm.
3 ENGLAND EAST	Nly. winds, light; fair generally.	9 IRELAND NORTH	Same as Nos. 6 and 7.
4 MIDLAND COUNTIES	NEly. to Nly. winds, light; fine, warm.	10 IRELAND SOUTH	Same as No. 8.
5 ENGLAND SOUTH		WARNINGS	None issued.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·09	77	66	NNW	4	b	1
Sumburgh Head	30·16	63	58	NE	1	b	2
Stornoway	30·11	73	62	N	0	b	0
Aberdeen	30·15	62	54	NE	2	b	2
Shields	30·12	59	56	NE	3	c	3
Ardrossan	30·04	72	68	NNE	3	b	1
Malin Head ...	30·02	62	59	ESE	5	b	2
Belmullet	29·92	78	?	ESE	3	b	*
Holyhead	29·97	71	64	E	3	b	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29·78	76	64	ESE	6	bcm	5
Scilly	29·79	66	61	ENE	5	c	2
Jersey	29·79	76	68	E	5	bc	4
Hurst Castle ...	29·88	76	66	E	5	bc	3
Dungeness ...	29·90	68	63	NE	5	b	4
North Foreland	29·96	67	61	NE	4	b	4
London (Westminster)	29·94	76	62	ENE	4	b	*
Yarmouth ...	30·02	65	61	NE	4	b	3
Rochefort ...	29·71	89	86	E	4	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental Information not received.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky ; c. detached clouds ; d. drizzling rain ; f. fog ; g. dark, gloomy ; h. hail ; l. lightning ; m. misty (hazy) ; o. overcast ; p. passing showers ; q. squally ; r. rain ; s. snow ; t. thunder ; u. ugly, threatening ; v. visibility, unusual transparency ; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France ; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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,, Weekly ,, ,, ,, £1 10 0 ,,

DAILY WEATHER REPORT

for 8 a.m. on FRIDAY JULY 16TH 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30.11	70	Z	0	bc	29.98	-.19	70	65	-5	W	2	0	*	bc	*	81	63	—
	Hernösand ...	30.08	62	Z	0	b	30.01	-.09	67	61	+2	NW	2	b	*	b	*	77	61	—
	Stockholm ...	29.97	65	ENE	4	b	29.88	-.09	69	62	+2	NNE	4	0	*	b	*	72	57	—
	Wisby	29.86	64	ESE	4	†	29.76	-.13	59	59	-4	NNE	4	†	*	†	*	70	52	0.12
	Karlstad ...	29.96	69	ENE	2	b	29.95	0.0	66	61	-2	NE	4	b	*	b. †	*	*	*	—
	Bodö	29.99	58	SW	1	bc	30.09	-.03	48	47	-7	W	2	0	2	bc	*	61	48	—
	Christiansund ...	30.02	54	ENE	3	f	30.16	+.06	52	51	-2	N	1	f	1	f	*	61	52	—
	Skudesnaes ...	29.99	61	W	2	c	30.09	+.13	66	62	-2	Z	0	f	1	† b.c	*	68	57	*
	Færder (Christiania Fjord)	29.99	69	ENE	2	0	29.99	+.05	66	62	0	NNE	3	b	2	0	*	70	64	—
	Skagen (The Scaw)	29.91	66	SE	1	c	29.89	+.01	64	62	0	NE	4	c	1	c	*	72	63	—
	Fanö	29.80	62	NE	2	bc	29.82	+.05	62	61	-2	N	4	c	*	bc	*	73	59	0.12
	Sumburgh Head	30.01	64	NE	4	b	30.13	+.12	52	51	-10	NE	2	0	4	bc. b	*	65	50	—
	Stornoway ...	30.10	67	E	3	b	30.15	+.07	62	58	-2	E	3	b	3	b	15.3	70	53	—
	Wick	30.10	65	NW	1	b	30.15	+.07	59	56	-7	N	1	b	0	b	*	74	48	—
	Nairn	30.04	68	E	1	b	30.16	+.10	62	58	-2	Z	0	b	0	b	*	79	42	—
	Aberdeen ...	30.03	61	N	4	bq	30.14	+.12	55	53	-10	N	3	0	3	bq	15.5	74	52	—
BRITISH ISLANDS.	Leith	29.98	70	E	3	b	30.13	+.11	63	61	-4	E	1	b	*	b	*	81	50	—
	Shields	29.99	61	NNE	2	b	30.14	+.12	53	52	-3	N	3	0	3	b. d	*	65	51	—
	Spurn Head ...	29.97	58	NNW	4	b	30.10	+.12	55	55	-1	NNW	5	0	4	b. o	*	60	53	—
	York	29.96	77	N	1	b	30.12	+.12	58	54	-2	NNW	2	0	*	b	13.7	78	50	—
	Loughborough ...	29.96	77	NW	1	b	30.14	+.13	56	54	-7	N	2	cmu	*	bm	*	80	50	—
	Ardrossan ...	29.98	70	WNW	1	b	30.13	+.10	61	59	-1	NW	1	bm	1	b	*	71	50	—
	Malin Head ...	30.05	62	E	2	bm	30.10	+.07	66	59	+6	W	1	bm	0	b. bm	*	67	56	—
	Belmullet ...	30.01	71	ENE	1	b	30.09	+.10	68	½	0	ESE	1	0	*	b	*	78	58	—
	Donaghadee ...	30.03	69	NNW	4	b	30.13	+.07	61	58	+1	NNW	3	b	1	b	*	73	51	—
	Liverpool (Bidston)	30.00	66	WNW	2	b	30.10	+.09	65	56	+2	WNW	3	b	2	b	*	70	57	—
	Holyhead ...	30.02	62	N	1	b	30.12	+.13	66	62	-1	Z	0	b	0	b	*	69	54	—
	Parsonstown ...	29.98	78	Z	0	b	30.10	+.11	70	60	+2	SE	1	c	*	b	12.4	78	50	—
	Valencia ...	29.92	72	E	4	bcm	30.06	+.19	63	61	-6	ESE	3	o fo	3	bm	6.7	77	60	0.01
	Roche's Point ..	30.01	65	ESE	4	b	30.06	+.11	63	61	-2	ESE	3	om	3	b	*	69	59	—
	Pembroke (St. Ann's Hd.)	29.98	73	N	2	b	30.12	+.18	65	59	0	Z	0	b	1	b	14.7	73	58	—
	Scilly	29.97	66	ESE	3	b	30.10	+.24	62	61	-1	ESE	1	wf	0	b	9.9	68	59	—
	Prawle Point ...	30.00	61	ENE	2	b	30.12	+.21	72	63	+7	Z	0	b	0	b. bc	*	72	58	—
	Jersey (St. Aubin's)	29.97	75	NE	3	b	30.13	+.26	71	59	+3	NW	2	b	2	b	*	80	54	—
	Hurst Castle ...	29.96	72	SW	2	b	30.10	+.18	70	65	+2	NW	1	cm	1	b	*	79	57	—
	Dungeness ...	29.94	63	E	2	b	30.05	+.14	64	59	-4	WNW	3	bc	2	b	*	70	52	—
	North Foreland	29.96	62	E	2	b	30.08	+.12	59	55	-3	N	4	0	3	b	*	65	54	—
	London (Brixton) ...	29.94	78	NNW	2	b	30.09	+.13	63	57	-2	N	2	bm	*	b	13.9	80	54	—
	Oxford	29.97	68	NNW	1	b	30.11	+.14	64	59	+2	NNE	1	b	*	b	*	79	53	—
	Cambridge ...	29.96	73	NNE	1	b	30.11	+.11	55	55	+3	NNW	3	0	*	b	12.6	78	49	—
	Yarmouth ...	29.95	61	NNW	3	bc	30.04	+.09	58	56	-2	NNW	3	c	3	b. bc	*	65	54	—
GERMANY & HOLLAND.	Cuxhaven ...	29.77	64	NW	3	c	29.81	+.02	62	60	-2	N	3	c	*	† c. †	*	66	59	0.08
	Berlin	29.74	64	WNW	1	0	29.72	-.03	60	59	0	W	1	0	*	0	*	68	59	0.83
	Wiesbaden ...	*	*	*	*	*	29.91	+.04	63	57	+2	NW	1	0	*	*	*	77	61	—
	Munich... ..	29.89	66	SW	2	bc	29.96	+.07	64	59	+2	W	4	b	*	bc	*	72	55	—
	The Helder ...	29.88	61	NW	3	bc	29.93	+.03	61	59	+3	N	4	bc	3	bc	*	63	57	—
BELGIUM.	Brussels ...	*	*	*	*	*	29.93	+.03	61	57	-3	NW	1	c	*	b	*	77	54	—
	Cape Gris Nez ..	29.93	63	ENE	1	b	30.02	+.04	59	57	-1	E	2	b	1	b	*	64	53	—
	Paris	29.90	75	NNE	2	b	30.06	+.23	63	57	-3	S	1	b	*	b	*	82	53	—
	Brest	29.96	67	NW	1	b	30.12	+.28	59	59	-9	NW	1	m	1	b	*	81	54	—
	Lorient... ...	29.95	73	WNW	3	b	30.12	+.30	64	63	-2	W	3	bc	2	b	*	86	61	—
FRANCE	Rochefort ...	29.91	72	NW	4	b	30.06	+.30	66	66	-1	NW	2	b	*	b	*	82	63	—
	Belfort	29.80	71	SW	1	c	29.98	+.18	59	58	+5	W	1	f	*	c	*	72	54	0.12
	Lyons	29.82	75	NW	1	0	30.01	+.24	71	63	0	N	1	bc	*	0	*	82	64	1.06
	Nice	29.73	75	Z	0	c	29.82	+.06	72	63	-1	W	1	b	6	c	*	79	64	—
	Perpignan ...	29.90	77	NW	4	c	30.07	+.28	71	63	+1	NW	4	b	*	c	*	82	69	—
	Biarritz ...	29.99	72	WNW	3	b	30.09	+.23	68	65	+1	SW	3	0	2	b	*	79	64	—
PENINSULA.	Corunna ...																*			
	Lisbon	30.09	66	N	3	b	30.17	+.18	70	64	+3	SSE	2	b	*	b	*	72	63	—
	Azores (P. Delgada)	29.83	65	WSW	4	b	29.89	+.19	66	59	+2	WSW	4	bc	5	bc. b	*	70	59	0.08

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

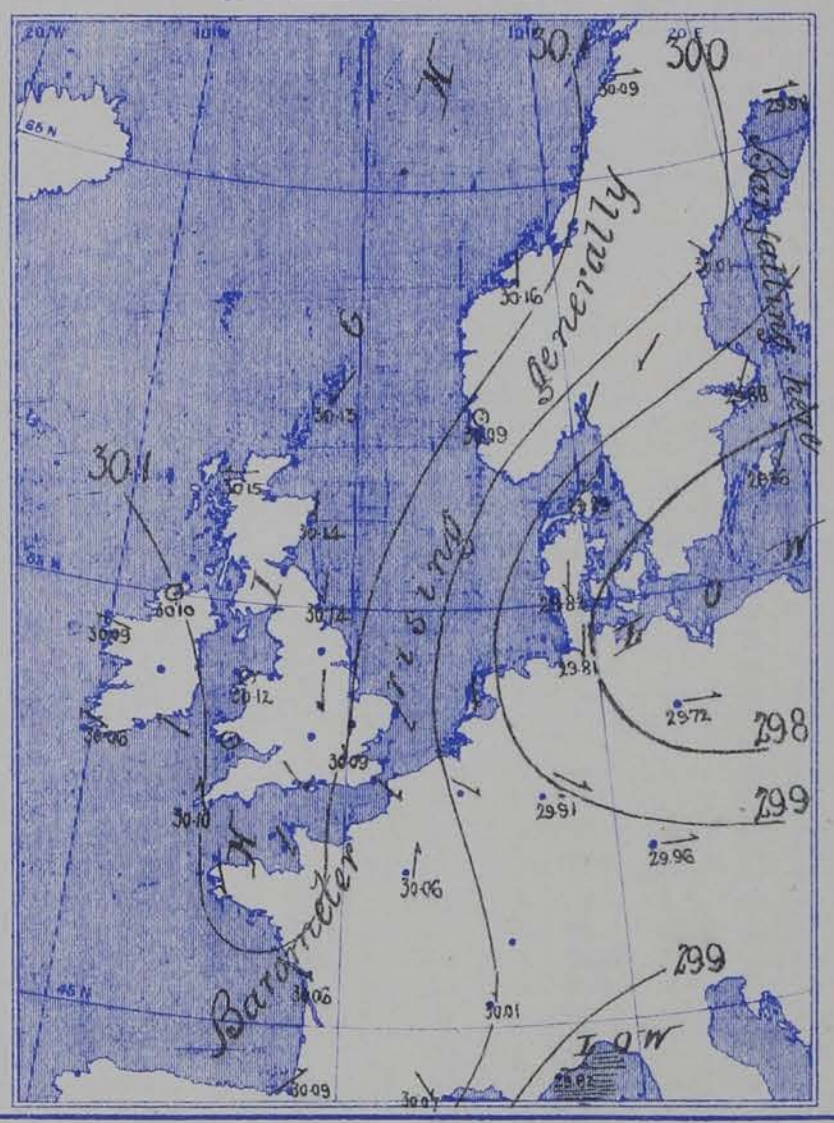
Bright Sunshine yesterday Southport 14.8 hrs;

WEATHER CHARTS

FOR FRIDAY, 16TH JULY, 1897.

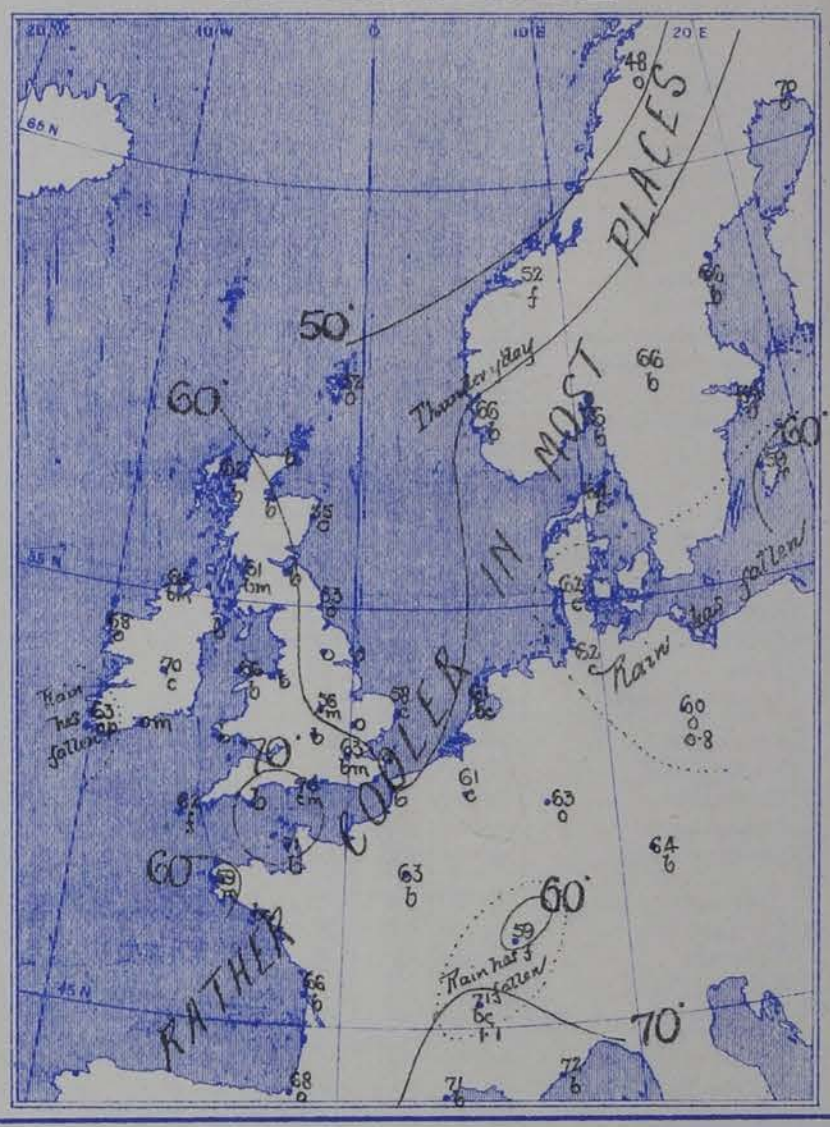
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95.* Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·1 ins. and upwards in an anticyclone lying over Gt. Britain, the NW. of France and the W. of Norway, and also in another system over the Spanish Peninsula.
Lowest 29.8 ins. and less in a large shallow depression over N. Germany and the Baltic.
Gradients slight. Barometer rising at all but the Swedish stations.

TEMPERATURE

Highest (1) 72° at Prawle Point, 71° at Jersey, and 70° at Hurst Castle; (2) 72° at Nice, and 71° at Lyons and Perpignan; (3) 70° at Haparanda, and 69° at Stockholm.
Lowest 48° at Bodö, 52° at Christiansund and Sumburgh Hd., 53° at Shields, & 55° at Aberdeen & Spurn Head.
During yesterday the thermometer rose to 75° and upwards in many parts of the United Kingdom, to 80° in London and at Loughborough and Jersey, and to 81° at Leith.

WIND

Light to moderate from the NE'ly in the south of Sweden, from the N'ly or NW'ly over Denmark, the Netherlands and all the more E'ly parts of Gt. Britain, and from the W'ly over the greater part of France and Germany.
Light from the SE'ly in the west and south of Ireland, and at the mouth of the English Channel. W. over the northern parts of Scandinavia.

WEATHER

Fine over W'n Europe as a whole, but dull in the eastern parts of Gt. Britain, as well as in the W. and S. of Ireland, with passing showers at Valencia (Ireland). Fog and mist were reported at the mouth of the English Channel.
Dull at several of the Swedish stations, with rain at Wisby.
Rain fell yesterday at some of the Continental stations,– heavily at Berlin and Lyons. With the exception of 0·01 in. at Valencia (Ireland) no rain was measured this morning at any of our stations.

SEA

Slight or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone over Gt. Britain is inclined to increase both in size and height, and fine dry weather is therefore likely to continue in most districts.

FORECASTS

For the 24 hours ending at NOON on 17th JULY 1897.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	N'ly or NE'ly winds; light; fine generally
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	N'ly winds, light; fine, warm
6 SCOTLAND WEST 7 ENGLAND N.W.	Light variable airs; fine, warm
8 ENGLAND S.W.	Variable or SE'ly airs; fine, warm
9 IRELAND NORTH	Same as Nos 6 and 7.
10 IRELAND SOUTH	SE'ly winds, light or moderate; cloudy, some showers.
WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.94	68	65	NNE	6	ft	1
Sumburgh Head	30.01	62	57	NE	3	bc	4
Stornoway	30.08	70	61	E	3	b	3
Aberdeen	29.99	72	56	NW	5	bq	3
Shields	30.00	62	59	NNE	3	bv	3
Ardrossan	30.00	71	68	WSW	1	b	1
Malin Head ...	30.05	63	58	E	2	b	1
Belmullet	30.06	78	?	ESE	1	b	*
Holyhead	30.02	65	61	NNE	2	b	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.91	76	66	NE	3	bcm	4
Scilly	29.93	64	63	E	5	b	2
Jersey	29.94	78	65	ENE	3	b	3
Hurst Castle ...	29.96	77	66	SSW	2	b	1
Dungeness ...	29.94	66	62	ENE	4	b	3
North Foreland	29.95	64	60	E	2	b	2
London (Westminster)	29.95	75	57	E	2	b	*
Yarmouth ...	29.95	64	59	N	3	b	3
Rochefort ...	29.87	73	73	NW	4	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine and bright over our Islands and a considerable portion of the Continent, but dull over the greater part of Denmark, Germany and the Baltic, with rain at Warsaw. Dull also at several of the central and southern stations in France, with rain at Belfort, Limoges and Toulon. Heavy rain falling later at Berlin and Lyons, and smaller amounts in some parts of Sweden and Denmark. Weather in our Islands remaining as a whole very fine and dry.

Temperature risen in the southern countries, but changed irregularly elsewhere. Morning readings highest 88° at Tunis, 85° at Algiers, 83° at Barcelona, and 81° at Palermo and Malta; above 70° in most parts of southern and eastern Europe and also in Lapland, the reading at Ulealong being as high as 76°. Lowest (1) 54° at Christianound, and 55° at Bodö, (2) 54° at Cambridge, and 56° at Spurn Hd. Rising during day to 75° and upwards in many parts of the United Kingdom, to 80° in London, and at Loughborough and Jersey, and to 81° at Leith. Exceeding 80° at most of the French stations, and touching 86° at Lorient.

Wind light to moderate from N. or NW. on our E. coasts, but NE. by E. or E. by N. over the western and southern parts of the United Kingdom and the N. of France, and variable on our NW. coasts. E. by N. or NE. by N. over Scandinavia and Nrn. Russia; N. by E. in Denmark, NW. by N. in north Germany; variable over south Germany, Austria and Italy. Light from the S. wd. or SW. wd. on the Portuguese coasts, and strong from SW. at Biarritz. NW. by N. winds setting in later in the W. of France; no important change occurring elsewhere.

Barometer highest 30.2 ins. and upwards over Nrn. Russia; 30.0 ins. and upwards in an anticyclone extending thence over Scandinavia and all the more Nrn. parts of the United Kingdom. Lowest 29.8 ins. and less in four shallow depressions, one lying over Denmark and N. Germany, another over Ern. Austria, the third over the extreme S. of Russia and the fourth over the S. of France. New high-pressure system appearing later over the Spanish peninsula and barometer rising decidedly in the W. of France.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Saturday 17th July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature. Dry Bulb.	Wet Bulb.	Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.86	66	2	0	b	29.86	− .12	65	57	− 5	N	2	bc	*	b	*	79	59	—
	Hernösand ...	29.90	66	2	0	b	29.88	− .13	70	60	+ 3	NE	4	bc	*	b	*	82	54	—
	Stockholm ...	29.83	62	NE	2	0	29.87	− .01	63	62	− 6	2	0	r	*	0	*	73	61	0.12
	Wisby	29.79	62	SE	4	0	? 29.89	+ .13	59	57	0	SSE	4	b	*	0	*	64	54	0.12
	Karlstad ...	29.85	73	NNE	2	bc	29.87	− .08	70	61	+ 4	N	2	0	*	bc	*	*	*	—
	Bodö	30.13	49	W	4	0	30.10	+ .01	50	46	+ 2	WSW	4	c	2	0	*	50	46	—
	Christiansund ...	30.17	54	NE	3	f	30.12	− .04	52	49	0	NNE	3	f	2	f	*	55	50	—
	Skudesnaes ...	29.99	59	NNW	8	f	30.00	− .09	53	51	− 13	N	6	f	2	bc.f	*	64	52	*
	Færder (Christiania Fjord)	29.86	78	E	1	b	29.81	− .18	69	59	+ 3	N	2	c	1	b	*	79	66	—
	Skagen (The Scaw)	29.89	69	N	2	c	29.89	.00	66	63	+ 2	ENE	1	bc	0	c	*	73	63	0.04
	Fanö	29.90	62	NW	4	c	29.88	+ .06	61	59	− 1	NNW	4	0	*	c	*	79	59	0.12
	Sumburgh Head	30.18	57	NE	1	c	30.13	.00	54	53	+ 2	NW	2	c	3	c	*	59	46	—
	Stornoway ...	30.15	64	E	3	b	30.12	− .03	59	54	− 3	2	0	b	0	b	14.1	68	53	—
	Wick	30.24	58	N	2	b	30.19	+ .04	56	54	− 3	S	1	b	0	b	*	69	47	—
	Nairn	30.19	60	NE	1	c	30.15	− .01	54	53	− 8	2	0	cm	0	cm	*	71	48	—
	Aberdeen ...	30.19	55	N	2	0	30.17	+ .03	57	54	+ 2	NE	2	bc	1	0	1.7	59	48	—
BRITISH ISLANDS.	Leith	30.16	62	E	1	b	30.17	+ .04	58	56	− 5	E	1	0	*	b	*	65	53	—
	Shields	30.16	57	NE	3	c	30.16	+ .02	53	52	0	NNE	3	0.	3	c.d	*	58	51	—
	Spurn Head ...	30.15	54	NNE	3	f	30.13	+ .03	54	54	− 1	NNW	4	0	3	c.f	*	62	52	—
	York	30.13	73	NW	1	b	30.15	+ .03	56	55	− 2	N	1	0	*	b	7.1	74	52	—
	Loughborough ...	30.12	76	SSE	1	bc	30.17	+ .03	56	55	0	NE	1	ogmw	*	bcm.om	*	79	54	—
	Ardrossan ...	30.13	63	2	0	b	30.14	+ .01	58	58	− 3	NNE	2	of	1	b	*	73	53	—
	Malin Head ...	30.13	69	SE	1	0	30.10	.00	62	58	− 4	WSW	1	om	0	b.om	*	70	57	—
	Belmullet ...	30.16	63	WNW	1	om	30.18	+ .09	61	60	− 7	ENE	1	om	*	o.om	*	73	59	0.18
	Donaghadee ...	30.15	68	SE	3	bc	30.14	+ .01	60	58	− 1	SE	3	c	1	bc	*	68	54	—
	Liverpool (Bidston)	30.13	69	WNW	2	b	30.13	+ .03	64	55	− 1	W	1	o	1	bm	*	70	59	—
	Holyhead ...	30.16	62	NW	1	om	30.13	+ .01	62	61	− 4	SSW	1	om	1	c.om	*	71	57	—
	Parsonstown ...	30.14	71	2	0	0	30.12	+ .02	65	62	− 5	2	0	0	*	c.o	5.6	79	60	0.05
	Valencia ...	30.11	64	SSE	2	p	30.15	+ .09	61	60	− 2	ESE	1	o	1	p	0.0	67	56	0.19
	Roche's Point ..	30.18	61	S	2	f	30.17	+ .11	62	60	− 1	NW	2	c	4	f	*	64	58	0.02
	Pembroke (St. Ann's Hd.)	30.16	69	SW	1	bc	30.16	+ .04	61	60	− 4	E	1	f	2	bc	7.1	74	60	—
	Scilly	30.17	65	SE	2	c	30.17	+ .07	62	61	0	WNW	1	f	3	c	0.9	67	60	—
	Prawle Point ...	30.17	68	W	3	bc	30.17	+ .05	64	61	− 8	W	3	cf	2	bc.f	*	74	59	—
	Jersey (St. Aubin's)	30.18	75	NW	3	b	30.20	+ .07	63	62	− 8	W	2	of	2	b.f	*	79	56	—
	Hurst Castle ...	30.13	70	WSW	3	cm	30.14	+ .04	68	65	− 2	SW	1	cm	2	bm.cm	*	80	59	—
	Dungeness ...	30.14	62	SSW	1	bc	30.12	+ .07	63	60	− 1	SSW	2	c	1	b.bc	*	67	57	—
	North Foreland	30.15	65	E	1	b	30.14	+ .06	67	62	+ 10	SE	1	c	1	b	*	69	56	—
	London (Brixton) ...	30.13	75	SE	1	c	30.12	+ .03	67	61	+ 4	SW	1	bc	*	bm.c	11.7	79	57	—
	Oxford	30.13	71	ENE	1	bc	30.13	+ .02	67	60	+ 3	NNW	1	bcm	*	bcm	*	80	57	—
	Cambridge ...	30.14	75	N	1	b	30.14	+ .03	57	56	0	N	1	m	*	b	7.2	79	52	—
	Yarmouth ...	30.13	64	NNW	3	b	30.13	+ .09	57	56	− 1	NNW	1	bcf	3	b	*	66	53	—
GERMANY & HOLLAND.	Cuxhaven ...	29.89	66	NNW	3	0	29.92	+ .11	59	53	− 3	NW	4	op	*	0	*	66	57	0.08
	Berlin	29.74	63	WNW	1	c	29.77	+ .05	62	60	+ 2	WNW	3	o	*	c	*	70	59	0.83
	Wiesbaden ...	*	*	*	*	*	30.08	+ .17	63	60	0	NW	2	o	*	*	*	68	61	0.04
	Munich... ..	30.09	58	W	5	0	30.13	+ .17	57	57	− 7	W	4	r	*	0	*	70	55	0.43
	The Helder ...	30.06	64	NNW	3	b	30.08	+ .15	58	57	− 3	WNW	4	o	3	b	*	64	57	—
BELGIUM.	Brussels ...	*	*	*	*	*	30.17	+ .24	58	57	− 3	WNW	2	o	*	o	*	67	55	—
	Cape Gris Nez ...	30.12	64	E	1	b	30.10	+ .08	61	60	+ 2	SW	1	m	1	b	*	66	57	—
	Paris	30.12	73	NNE	2	b	30.19	+ .13	61	59	− 2	S	1	b	*	b	*	81	54	—
	Brest	30.22	66	W	1	0	30.19	+ .07	65	63	+ 6	S	1	o	3	o	*	72	57	—
	Lorient... ...	30.20	72	WNW	5	b	30.21	+ .09	66	63	+ 2	NE	2	c	2	b	*	71	59	—
FRANCE &	Rochefort ...	30.15	71	NW	4	b	30.17	+ .11	66	65	0	N	2	b	*	b	*	79	64	—
	Belfort	30.00	69	SW	3	bc	30.11	+ .13	64	59	+ 5	2	0	m	*	bc	*	75	51	—
	Lyons	30.08	75	NNW	1	b	30.13	+ .12	64	59	− 7	NNW	2	b	*	b	*	80	61	—
	Nice	29.80	78	WSW	1	b	29.86	+ .04	77	63	+ 5	E	4	b	0	b	*	84	68	—
	Perpignan ...	30.06	82	NW	3	b	30.10	+ .03	77	66	+ 6	NW	3	b	*	b	*	86	70	—
	Biarritz ...	30.15	73	NNW	2	b	30.15	+ .06	70	67	+ 2	N	2	b	1	b	*	79	64	—
PENINSULA.	Corunna ...																*			
	Lisbon	30.17	70	NW	4	b	30.18	+ .01	71	64	+ 1	NNW	4	b	*	b	*	81	64	—
	Azores (P. Delgada)	30.01	67	SW	4	b	30.02	+ .13	68	63	+ 2	SW	5	c	6	b	*	70	63	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

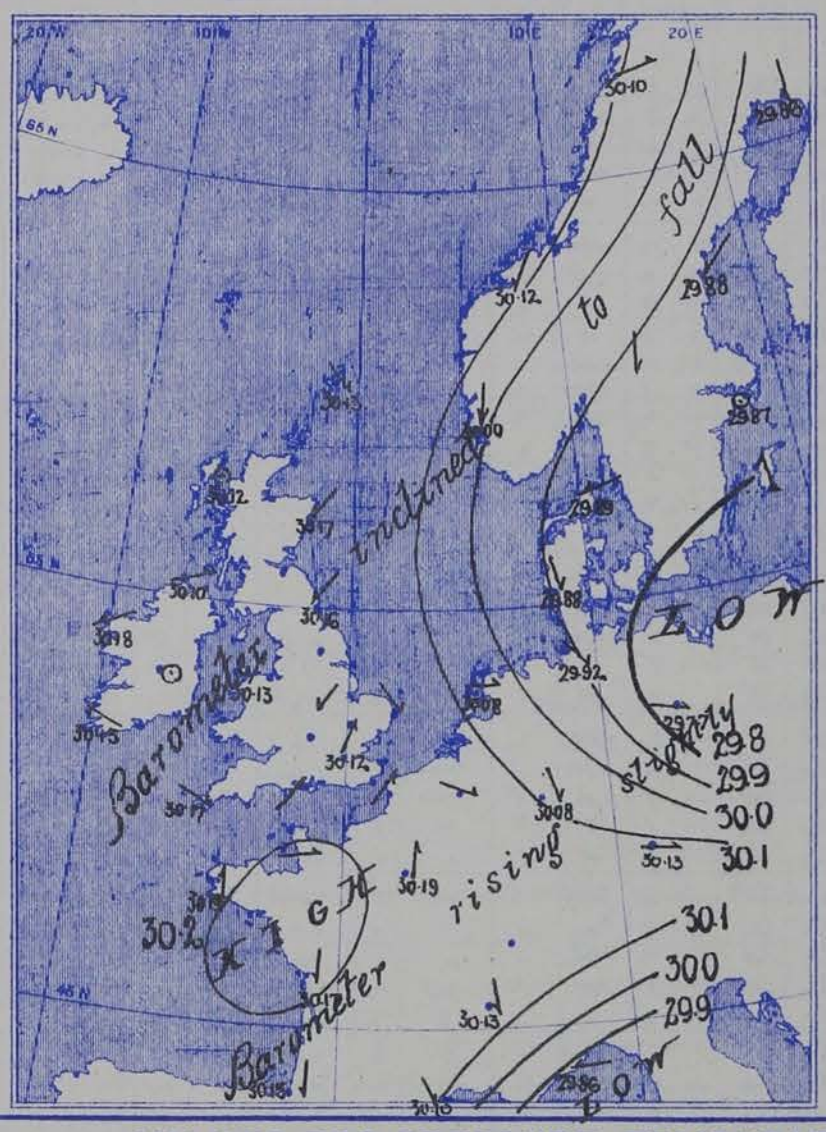
Bright Sunshine yesterday Southport. 13.5 hrs;

WEATHER CHARTS

FOR SATURDAY, 17th JULY, 1897.

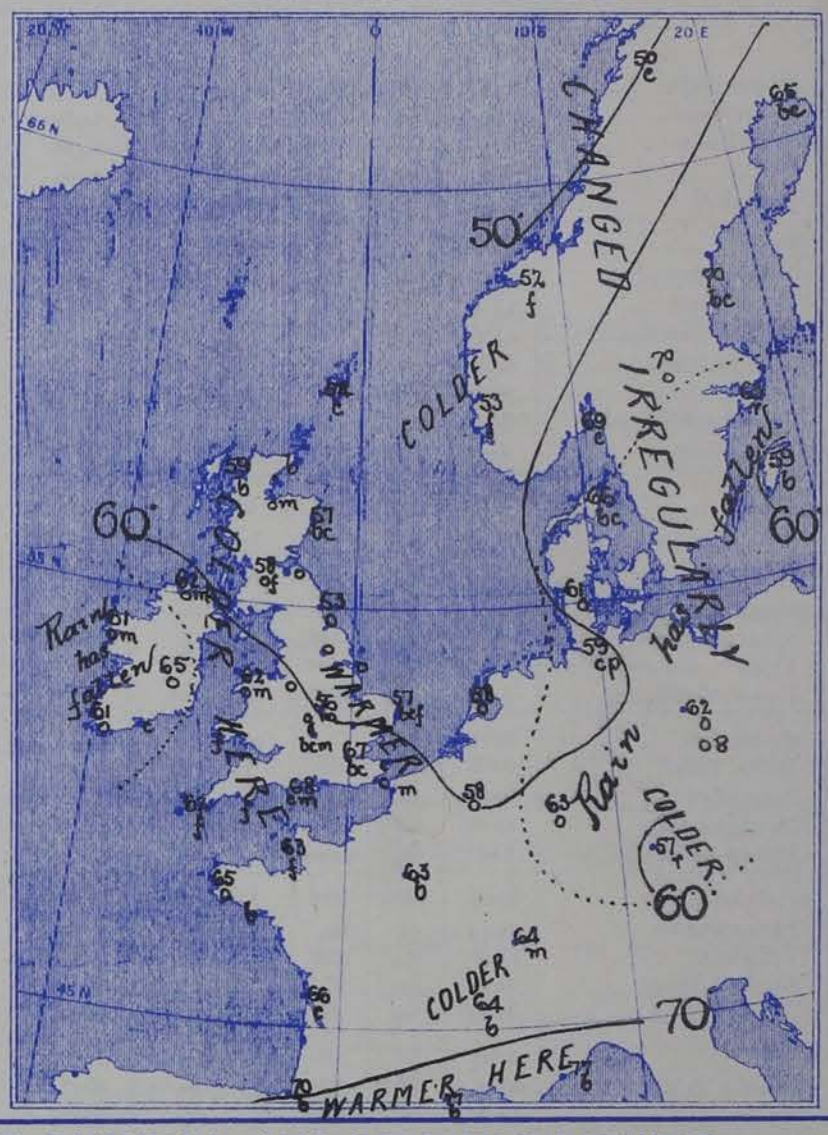
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum	Daily Minimum	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 73	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	--	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 ins and upwards over our islands, the west of Norway, and the greater part of the Netherlands, France and the Spanish peninsula.
Lowest 29.8 ins. and less in a depression over North Germany and the Baltic.
Gradients extremely slight over our islands and France, but moderate over Germany and the greater part of Scandinavia.
Barometer inclined to fall in our islands and Scandinavia; rising a little in most other parts of our area.

TEMPERATURE

Highest (1) 77° at Nice and Perpignan, 71° at Lisbon, 70° at Biarritz & 68° at Hurst Castle; (2) 70° at Hernösand and Karestad.
Lowest 50° at Bodö, 52° at Christiansund, 53° at Thudesnaes & Shields and 54° at Naiwn & Spurn Head.
During yesterday the thermometer rose to 75° and upwards at several of our Central and Southern stations, and to 80° at Oxford and Hurst Castle.

WIND

Light & very variable in all the more western and northern parts of our islands, but W.ly or SW.ly at the English channel stations; N.ly or NW.ly on the east coast of England & also on the eastern shores of the North Sea; NW.ly or W.ly over the Netherlands and Germany.
Light from the N.wd. at most stations in the west and south of France.

WEATHER

Cloudy or dull over the United Kingdom generally, with fog or mist on many parts of our western coasts, but fine in the north of Scotland. Fine in France and also in the northern parts of Sweden; foggy in the west of Norway; dull over Germany, the Netherlands and the south of Sweden, with rain at Stockholm and Berlin, and passing showers at Cuxhaven. Rain fell yesterday in the west and south of Ireland, as well as in Denmark, Germany & the south of Sweden. Over Great Britain the weather remained very dry.

SEA

Slight or smooth on all coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any decided change in the weather.

FORECASTS

For the 24 hours ending at NOON on 18th JULY 1897.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	Light variable airs; fair generally.
2 ENGLAND N.E. 3 ENGLAND EAST	N.ly and NW.ly winds, light; fair generally.
4 MIDLAND COUNTIES 5 ENGLAND SOUTH	Light variable airs; fair, close.
6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	Light variable airs; cloudy, with mist or fog in many places.
WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·04	67	62	NNW	6	bc	2
Sumburgh Head	30·19	56	54	NE	2	c	4
Stornoway	30·17	68	61	E	3	b	3
Aberdeen	30·19	58	54	N	3	o	3
Shields	30·17	57	53	NE	3	c	0
Ardrossan	30·11	73	68	W	1	b	1
Malin Head ...	30·12	67	59	SE	1	b	0
Belmullet	30·13	70	62	S	1	o	*
Holyhead	30·15	64	63	NW	1	c	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·11	65	62	SE	3	r	3
Scilly	30·16	64	62	SSE	1	f	0
Jersey	30·18	77	61	WNW	3	b	3
Hurst Castle ...	30·13	76	69	SW	3	bm	2
Dungeness ...	30·14	65	61	ESE	3	b	2
North Foreland	30·14	66	60	N	2	b	2
London (Westminster)	30·14	73	63	NNE	2	bm	*
Yarmouth ...	30·11	64	60	NW	2	b	3
Rochefort ...	30·14	77	76	WNW	3	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine over the greater part of our Islands and the Continent, but dull in the East of Great Britain, and also in the west and south of Ireland, with passing showers at Valencia. Dull also over Germany, the south of Sweden, and eastern and central Russia, with rain at Prague and Wisby and a thunderstorm at Moscow. Rain falling later in the west and south of Ireland generally, and in Germany, Denmark, and the south of Sweden — heavily at Berlin. Weather remaining very dry over Great Britain.

Temperature fallen in our Islands and the neighbouring parts of the Continent, but changed irregularly elsewhere. Morning readings highest 84° at Brindisi, Athens, and Sfax, 82° at Palermo and Algiers, and 81° at Barcelona, above 70° over Southern Europe generally, as well as at some of the English Channel stations and in parts of Finland. Lowest 48° at Bodö, 52° at Christiansund and Sumburgh Head, and 53° at Shields. Daily maxima below 60° on some parts of our own northeast coasts, but thermometer exceeding 75° at many of our central and southern stations, and reaching 80° at Oxford and Hurst Castle. Exceeding 80° in the central and southern parts of France.

Wind light to moderate from the NE^{ly} in Finland and the south of Scandinavia, from the N^{ly} or NW^{ly} over Denmark, the eastern parts of Great Britain, the Netherlands and Western Germany, and from the W^{ly} over France and South Germany; S^{ly} or SE^{ly} over the Baltic Provinces. Light from the SE^{ly} in the extreme west and southwest of our Islands. Variable over northern Italy, but W^{ly} or NW^{ly} in the south of that country and also in Greece. Subsequently veering to the NW^{ly} or N^{ly} in France; no important change occurring elsewhere.

Barometer highest 30·1 in: and upwards, in a large anticyclone embracing the whole of Great Britain, the west of Norway and a considerable portion of the west of France, as well as in another system over the Spanish Peninsula. Lowest 29·7 in: and less, in a well marked depression over North Germany and the Baltic, 29·8 in: and less, in a shallow system over the south of Russia. The two anticyclones joining later, and barometer rising slightly in most parts of our Islands and France.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Sunday 18th July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA	Haparanda ...	29.81	63	2	0	c	29.91	+.05	64	56	−1	NE	4	b	*	c	*	81	61	—
	Hernösand ...	29.88	65	2	0	b	29.90	+.02	68	59	−2	NE	4	bc	*	b	*	79	54	—
	Stockholm ...	29.88	63	2	0	b	29.89	+.02	69	64	+6	NNE	2	b	*	b	*	73	59	0.12
	Wisby	29.93	60	SE	4	b	29.87	−.02	65	61	+6	E	4	0	*	b	*	65	50	—
	Karlstad ...	29.87	68	2	0	c	29.89	+.02	68	65	−2	ENE	2	c	*	c	*	*	*	—
	Bodö	30.04	51	WSW	4	b	30.02	−.08	50	48	0	WSW	4	0	2	b	*	54	46	—
	Christiansund ...	30.06	56	NE	2	b	30.02	−.10	54	52	+2	SE	1	b	1	b	*	59	48	—
	Skudesnaes ...	29.92	56	N	6	b	29.92	−.08	54	51	+1	N	4	b	2	c.b	*	61	50	*
	Færder (Christiania Fjord)	29.86	70	SSW	1	c	29.90	+.09	66	63	−3	N	2	0	1	c	*	79	64	0.35
	Skagen (The Scaw)	29.88	68	SW	1	bc	29.89	.00	66	63	0	2	0	c	0	bc	*	82	63	—
	Fanö	29.91	59	NW	2	0	29.88	.00	59	57	−2	NNW	2	c	*	0	*	73	57	—
	Sumburgh Head	30.09	55	WNW	1	b	30.06	−.07	64	55	+10	N	1	b	2	c.b	*	64	46	—
	Stornoway	30.08	63	SE	1	0	30.05	−.07	63	60	+4	2	0	b	0	0	1.1	70	51	—
	Wick	30.14	58	S	1	f	30.11	−.08	62	60	+6	S	2	b	0	f	*	62	43	—
	Nairn	30.09	59	E	1	c	30.09	−.06	55	54	+1	2	0	m	1	c	*	61	51	—
	Aberdeen ...	30.12	51	E	1	of	30.09	−.08	63	59	+6	NNE	1	bc	1	of	5.0	64	44	—
BRITISH ISLANDS	Leith	30.11	61	E	1	0	30.10	−.07	51	51	−7	E	1	0	*	0	*	61	49	—
	Shields	30.13	54	NE	1	0	30.09	−.07	55	53	+2	NE	2	cm	3	0	*	58	50	—
	Spurn Head ...	30.11	55	N	3	c	30.07	−.06	61	59	+7	NNW	2	c	3	c	*	61	53	—
	York	30.12	62	NW	1	0	30.08	−.07	63	57	+7	WNW	1	b	*	0	0.0	63	48	—
	Loughborough ...	30.11	66	2	0	0	30.10	−.07	54	53	−2	2	0	cmw	*	cm.of	*	66	49	—
	Ardrossan ...	30.06	66	N	1	cf	30.05	−.09	63	59	+5	NNW	3	bm	2	cf	*	69	53	—
	Malin Head ...	30.07	63	W	2	cm	30.03	−.07	60	58	−2	SSW	2	bcm	0	cm	*	66	55	—
	Belmullet ...	30.12	63	ENE	1	0	30.02	−.16	60	59	−1	ENE	1	ov	*	0	*	65	56	0.02
	Donaghadee ...	30.11	60	ESE	2	bc	30.06	−.08	55	55	−5	E	2	f	0	bc	*	63	51	—
	Liverpool (Bidston)	30.10	64	WNW	1	0	30.09	−.04	62	60	−2	ESE	1	b	1	0	*	66	55	—
	Holyhead ...	30.11	61	SW	2	f	30.05	−.08	58	58	−4	NW	1	fw	0	f	*	65	54	—
	Parsonstown ...	30.07	73	W	1	bc	30.04	−.08	63	59	−2	SE	1	0	*	bc	6.9	74	55	—
	Valencia ...	30.09	60	W	2	c	29.91	−.24	64	62	+3	E	5	op	4	b.c	9.0	65	57	0.19
	Roche's Point ..	30.11	61	S	3	c	29.97	−.20	62	61	0	SSE	4	r	4	c	*	64	59	0.04
	Pembroke (St. Ann's Hd.)	30.12	59	SW	2	f	30.04	−.12	58	58	−3	SSE	3	f	2	f	0.1	69	58	—
	Scilly	30.15	67	NW	1	c	30.01	−.16	63	62	+1	S	3	op	3	c	0.8	68	61	0.08
	Prawle Point ..	30.12	66	W	2	m	30.05	−.12	64	62	0	W	2	cm	2	cm.f	*	70	59	—
	Jersey (St. Anoin's)	30.15	70	NNW	2	c	30.08	−.12	65	63	+2	2	0	0	0	c	*	71	60	—
	Hurst Castle ...	30.10	73	WSW	1	cm	30.07	−.07	68	65	0	NE	1	bm	1	cm	*	73	57	—
	Dungeness ...	30.05	62	ENE	2	0	30.05	−.07	64	59	+1	NNE	2	b	1	c.a.f	*	70	57	—
	North Foreland	30.10	60	NE	2	0	30.07	−.07	60	56	−7	N	3	b	1	f.o	*	69	56	—
	London (Brixton) ...	30.10	70	WSW	1	0	30.08	−.04	67	60	0	2	0	bm	*	c.o.bmw	1.9	79	58	—
	Oxford	30.10	65	NNE	1	b	30.09	−.04	55	55	−12	NE	1	of	*	a.p.b	*	74	51	—
	Cambridge ...	30.11	62	N	1	m	30.09	−.05	60	56	+3	N	1	bm	*	m	0.0	66	54	—
	Yarmouth ...	30.08	57	NNW	3	c	30.04	−.09	60	57	+3	NNW	2	b	3	cf.c	*	60	51	—
GERMANY & HOLLAND	Cuxhaven ...	29.92	59	NW	3	0	29.89	−.03	58	57	−1	NW	2	0	*	0	*	61	55	—
	Berlin	29.85	63	WNW	3	c	29.87	+.10	61	58	−1	WNW	1	0	*	c	*	70	57	1.06
	Wiesbaden ...	*	*	*	*	*	30.01	−.07	63	60	0	NW	2	bc	*	*	*	75	61	—
	Munich... ..	30.08	63	SW	4	b	30.05	−.08	62	59	+5	W	5	bc	*	b	*	70	57	0.12
	The Helder ...	30.02	59	NNW	3	bc	29.98	−.10	60	56	+2	N	3	bc	2	bc	*	61	57	—
BELGIUM	Brussels ..	*	*	*	*	*	30.09	−.08	59	56	+1	NNW	2	c	*	0	*	70	54	—
	Cape Gris Nez ...	30.05	63	W	1	m	30.04	−.06	59	58	−2	NNE	1	m	1	m	*	66	55	—
	Paris	30.09	76	N	2	0	30.08	−.11	64	61	+3	N	2	c	*	0	*	81	60	—
	Brest	30.17	70	NW	1	c	30.04	−.15	63	62	−2	ESE	1	r	3	c	*	72	57	0.08
	Lorient... ...	30.11	72	NNW	3	b	30.04	−.17	63	61	−3	ESE	2	r	5	b	*	75	59	0.16
FRANCE	Rochefort ...	30.09	72	NW	4	bc	30.03	−.14	68	67	+2	SW	2	c	*	bc	*	82	64	—
	Belfort	30.08	67	E	1	0	30.04	−.07	61	58	−3	SW	2	m	*	0	*	76	57	—
	Lyons	30.04	75	N	2	bc	30.02	−.11	71	62	+7	NW	2	b	*	bc	*	79	62	—
	Nice	29.87	80	E	3	b	29.85	−.01	78	63	+1	2	0	b	1	b	*	88	68	—
	Perpignan ...	29.98	85	NW	3	b	30.01	−.09	78	65	+1	W	3	b	*	b	*	90	70	—
	Biarritz ...	30.05	75	NNE	3	b	30.04	−.11	72	71	+2	W	4	0	2	b	*	81	70	—
PENINSULA	Corunna ...	30.17	68	NNW	2	b	30.13	−.06	64	63	−2	NNW	1	0	2	b	*	70	59	—
	Lisbon	30.12	69	N	4	b	30.11	−.07	71	65	0	N	3	b	*	b	*	84	64	—
	Azores (P. Delgada)																*			

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

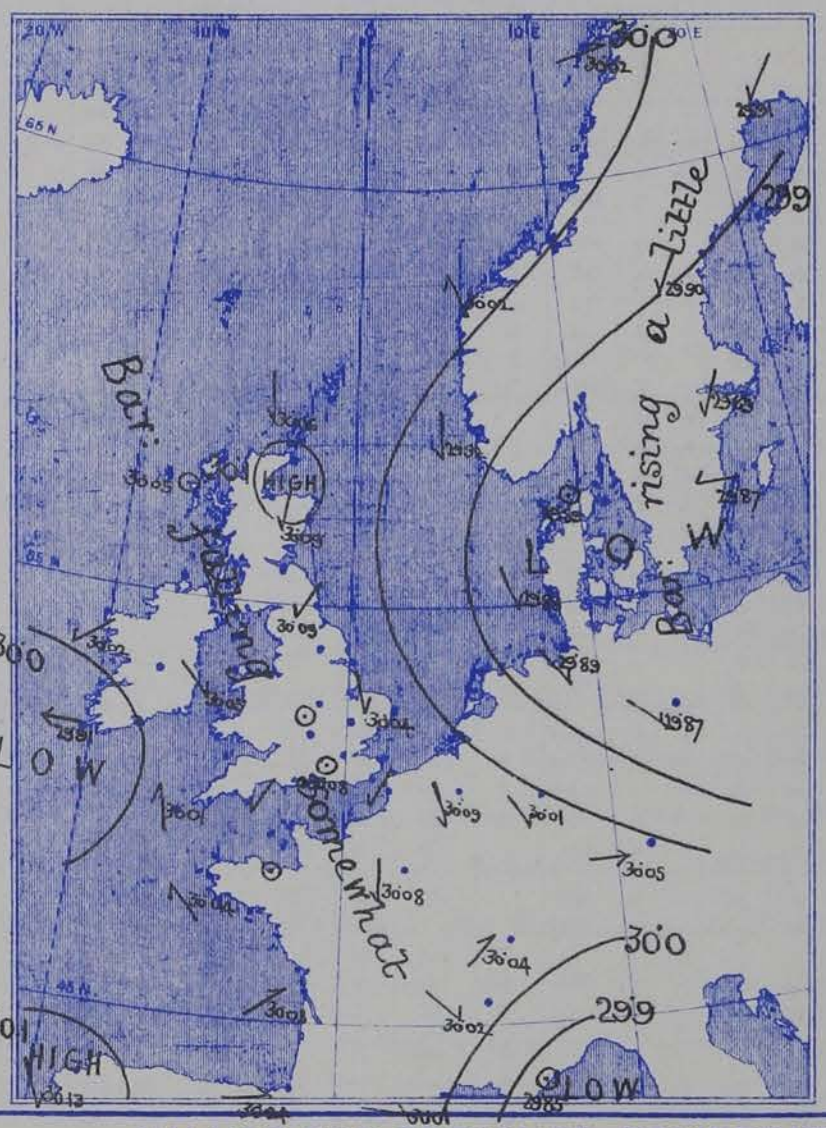
Bright Sunshine yesterday Southport 0·0 *hrs;*

WEATHER CHARTS

FOR Sunday, 18th July, 1897.

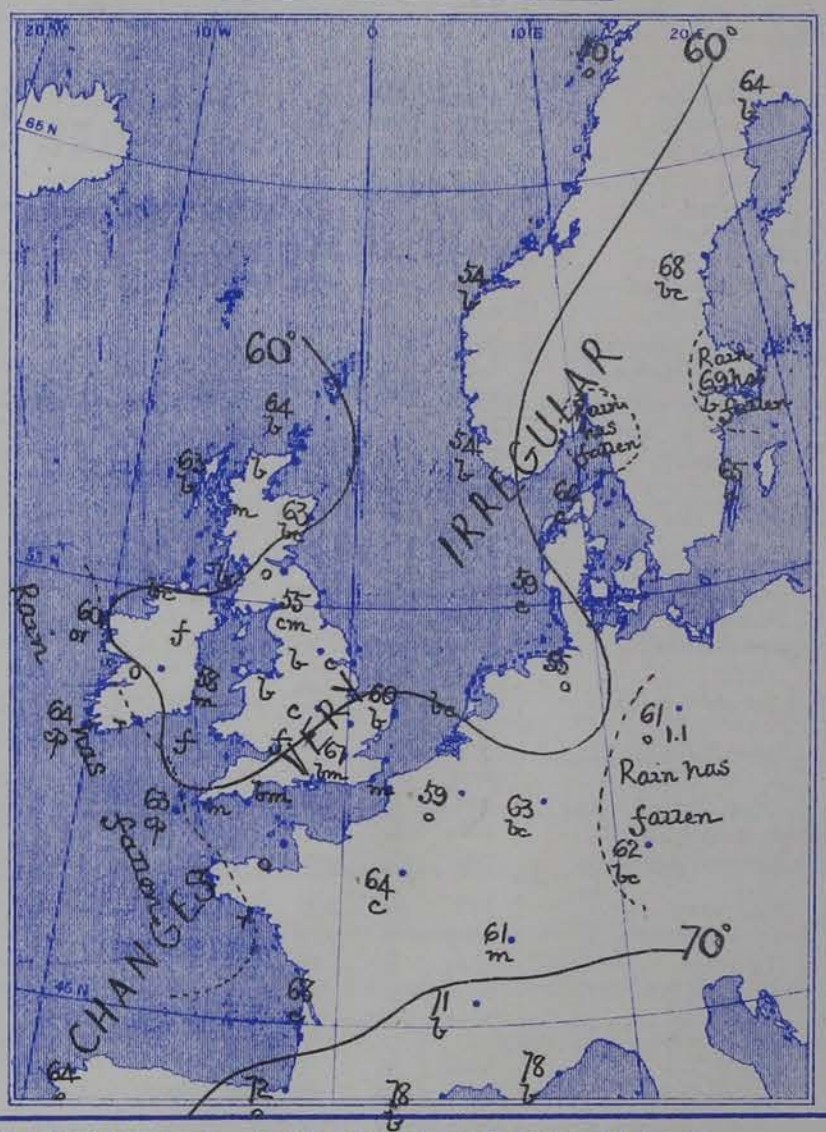
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 73	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 73	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest, 30·1 ins. and upwards in the western parts of the Spanish Peninsula, and also at Wick and Leith; 30·0 ins. and upwards over the greater parts of our Islands and France.

Lowest, 29·9 ins. and less, in two depressions lying respectively off the southwest of Ireland and the south of France, as well as in a large area over Denmark, the Baltic, North Germany, and the south of Sweden.

Gradients slight. Barometer falling at all but the Swedish stations, slightly in most places, but more decidedly in the south of Ireland.

TEMPERATURE

Highest (1) 78° at Nice and Perpignan, 72° at Biarritz, and 71° at Lyons and Lisbon; (2) 69° at Stockholm, and 68° at Thorshavn and Karlstad.

Lowest, (1) 50° at Bodö, and 54° at Christiansund and Skudesnes; (2) 51° at Leith, 54° at Loughborough, and 55° at Nairn, Shields, Donaghadee and Oxford.

During yesterday the thermometer rose to 70° at Stornoway, to a little above that point at several stations in the south of England and to 79° in London.

WIND

Light from the S.and SE. on our extreme southwest coasts generally and in the northwest of France, but fresh from E. at Valencia (Ireland). Light from the N. in the east of England and from the same quarter or from NW. on the eastern shores of the North Sea; NE. in Sweden; variable in the west of Norway. W. in the southern parts of France; N. on the Portuguese coast.

WEATHER

Foggy or misty on many parts of our western coasts, with rain in the west and south of Ireland and the northwest of France, and heavy showers at Seilly. Fine in most other parts of Western Europe, but dull over North Germany.

Since yesterday morning a little rain has fallen in the extreme west and southwest of our Islands, and also in the northwest of France, and a larger quantity (1·1 in.) at Berlin.

SEA

Slight or smooth generally, but moderate off the south of Ireland.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 19th JULY, 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED.	6 SCOTLAND WEST	NONE ISSUED.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.94	60	55	N	7	c	3
Sumburgh Head	30.11	55	54	WNW	2	c	3
Stornoway	30.10	66	59	S	2	o	1
Aberdeen	30.15	54	53	E	1	of	1
Shields	30.14	56	53	NE	3	c	3
Ardrossan	30.09	68	67	N	2	ef	1
Malin Head ...	30.09	65	61	WNW	1	om	D
Belmullet	30.13	65	62	ENE	1	o	*
Holyhead	30.13	64	63	SSW	2	ef	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.12	63	61	SW	1	b	2
Scilly	30.15	67	63	NW	1	c	3
Jersey	30.18	68	64	W	3	og	3
Hurst Castle ...	30.13	72	66	NNW	1	o	1
Dungeness ...	30.07	67	64	SW	2	c	1
North Foreland	30.10	61	60	NE	2	f	1
London (Westminster)	30.10	75	63	NE	2	o	*
Yarmouth ...	30.11	58	58	NNW	2	c	3
Rochefort ...	30.13	77	75	NW	3	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over the United Kingdom generally, with fog or mist on many parts of our eastern coasts, but fine in the north of Scotland. Fine over the greater part of the Continent, but foggy in the west of Norway, and dull in Denmark and Germany, with rain at Prague and Munich, and passing showers at Cuxhaven. A little rain falling at night in the extreme west and southwest of our Islands and also in the northwest of France; heavy rain again reported at Berlin.

Temperature fallen in our Islands and the Netherlands and also in the south of Italy, risen or changed irregularly elsewhere. Morning readings highest 82° at Barcelona, 81° at Algiers, Tunis and Constantinople, and 80° at Athens; above 70° over Southern Europe generally and also in Finland. Lowest 50° at Bodo, 52° at Christiansund, 53° at Skudesnaes and Shields, and 54° at Nairn and Sumburgh Head. Rising during day to 70° at Stornoway, to a little above that point over the south of England generally, and to 79° in London. Reaching 80° in many parts of France and reaching 90° at Perpignan.

Wind light and variable in all the more western parts of the United Kingdom, but W or SW at the English Channel stations, and N or NW on our east coasts as well as on the eastern shores of the North Sea. NW or W in Germany; variable in Austria and northern Italy; NW over the Spanish Peninsula and the southern parts of France and Italy. No important change occurring over Western Europe during day.

Barometer highest 30.2 in. and upwards over the northwestern parts of Spain; 30.1 in. and upwards in an anticyclone covering the Spanish Peninsula, France, the United Kingdom and the west of Norway. Lowest 29.7 in. and less, in a large shallow area over Southeastern Europe; 29.8 in. and less, in another shallow depression over Northeastern Germany. Slight but general fall of the barometer taking place over Western Europe during day, and anticyclone becoming somewhat restricted both in size and height.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France: at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Monday 19th July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA	Haparanda ...	29.83	61	2	0	bc	29.73	− ·18	61	56	− 3	NNW	2	0	*	bc	*	77	54	—
	Hernösand ...	29.88	64	2	0	b	29.83	− ·07	67	53	− 1	NW	4	b	*	b	*	79	57	—
	Stockholm ...	29.85	66	ENE	2	0	29.75	− ·14	68	64	− 1	ENE	2	0	*	0	*	77	57	—
	Wisby	29.78	64	ESE	4	0	29.73	− ·14	63	60	− 2	S	4	0	*	0	*	70	54	0·08
	Karlstad ...	29.63	70	NNE	1	b	29.76	− ·13	71	63	+ 3	NE	2	bc	*	r, b	*	*	*	0·04
	Bodö	29.99	50	WSW	6	0	29.97	− ·05	48	46	− 2	NW	5	0	1	0	*	54	46	0·39
	Christiansund ...	30.05	56	NE	1	b	30.04	+ ·02	54	50	0	NE	2	bc	1	b	*	57	50	—
	Skudesnaes ...	29.89	64	NNW	2	b	29.79	− ·13	63	59	+ 9	SSE	1	b	1	b	*	64	50	*
	Færder (Christiania Fjord)	29.84	71	NNW	1	0	29.76	− ·14	69	64	+ 3	NNE	1	c	1	0	*	73	66	0·16
	Skagen (The Scaw)	29.84	66	2	0	r	29.72	− ·17	65	64	− 1	NW	1	0	0	r	*	70	61	0·28
	Fanö	29.82	59	WNW	2	bc	29.71	− ·17	62	62	+ 3	WNW	1	0	*	bc	*	64	59	—
BRITISH ISLANDS	Sumburgh Head	30.05	62	W	1	c	29.92	− ·14	54	52	− 10	NE	3	0	3	c	*	70	52	—
	Stornoway ...	29.99	75	E	1	b	29.94	− ·11	64	59	+ 1	E	1	c	1	b	13·8	75	53	—
	Wick	30.09	60	2	0	b	29.96	− ·15	62	58	0	NNE	1	bc	0	b	*	70	47	—
	Nairn	30.01	64	E	3	bc	29.93	− ·16	58	56	+ 3	2	0	bc	1	bc	*	65	44	—
	Aberdeen ...	30.06	61	NE	2	b	29.90	− ·19	65	57	+ 2	N	3	bc	2	b	15·1	68	50	—
	Leith	30.03	64	E	2	b	29.89	− ·21	64	62	+ 13	NE	1	bm	*	b	*	65	45	—
	Shields	30.03	57	NE	2	c	29.86	− ·23	62	55	+ 7	NNE	4	bc	3	c, f	*	62	50	—
	Spurn Head ...	30.01	54	NE	4	f	29.82	− ·25	58	57	− 3	NNE	4	b	3	bc, f	*	63	51	—
	York	29.99	73	ENE	1	b	29.84	− ·24	63	55	0	N	1	b	*	b	14·2	78	46	—
	Loughborough ...	29.96	80	ENE	2	b	29.85	− ·25	59	52	− 5	NNE	1	bcm	*	b, bc, cm	*	82	49	—
	Ardrossan ...	29.97	65	2	0	cm	29.87	− ·18	64	61	+ 1	NNE	4	bcm	2	cm	*	75	53	—
	Malin Head ...	29.94	62	ESE	2	cm	29.85	− ·18	59	55	− 1	SE	4	cm	2	bc, cm	*	65	54	—
	Belmullet ...	29.90	67	ENE	1	0	29.82	− ·20	60	59	0	ENE	1	or	*	0	*	70	58	0·09
	Donaghadee ...	29.97	64	NNW	3	bc	29.88	− ·18	62	55	+ 7	NNW	2	bm	0	bc	*	64	52	—
	Liverpool (Bidston)	29.94	74	NE	2	c	29.82	− ·27	65	59	+ 3	E	3	b	?	c	*	80	58	—
	Holyhead ...	29.98	61	NW	1	bcf	29.81	− ·24	59	59	+ 1	NE	1	rgm	0	bcf	*	64	57	—
	Parsonstown ...	29.90	67	SE	2	0	29.78	− ·26	62	60	− 1	2	0	od	*	o.c	1·2	71	59	0·06
	Valencia ...	29.91	64	SW	2	cm	29.76	− ·15	63	59	− 1	2	0	bcm	1	cm	1·4	68	53	—
	Roche's Point ..	29.93	63	SSW	3	bc	29.79	− ·18	58	57	− 4	N	2	f	3	bc	*	66	55	0·10
	Pembroke (St. Ann's Hd.)	29.97	62	2	0	0	29.77	− ·27	61	60	+ 3	ESE	3	rg	3	0	0·8	64	51	0·42
	Scilly	29.97	65	WNW	1	bc	29.75	− ·26	61	60	− 2	W	1	efw	1	bc	4·3	69	58	?
	Prawle Point ...	29.97	64	W	1	c	29.75	− ·30	59	57	− 5	NE	2	0	2	c, f, rt	*	70	56	0·53
	Jersey (St. Aubin's)	29.97	71	N	2	b	29.74	− ·34	65	63	0	SE	3	ogm	3	f, b, thr	*	74	62	0·16
	Hurst Castle ...	29.97	62	SE	2	cm	29.77	− ·30	67	63	− 1	ENE	2	cw	2	cm	*	74	61	—
	Dungeness ...	29.98	63	SSE	1	bc	29.82	− ·23	65	59	+ 1	E	2	w	1	b, bc	*	68	59	—
	North Foreland	30.01	63	NE	2	b	29.85	− ·22	61	58	+ 1	SE	2	0	1	b	*	67	57	—
	London (Brixton) ...	29.99	75	SE	1	bc	29.83	− ·25	68	59	+ 1	E	1	bcm	*	bm, cm, p	9·0	80	56	—
	Oxford	29.94	70	E	2	c	29.82	− ·27	63	59	+ 8	NNE	1	m	*	c	*	80	55	—
	Cambridge ...	29.98	76	N	1	b	29.86	− ·23	54	52	− 6	NNE	1	bc	*	b	13·0	80	46	—
	Yarmouth ...	29.99	61	NNE	3	b	29.83	− ·21	58	55	− 2	NNW	2	b	3	b	*	64	54	—
GERMANY & HOLLAND	Cuxhaven ...	29.86	59	NW	2	0	29.76	− ·13	58	56	0	W	1	0	*	0	*	61	55	—
	Berlin	29.84	61	WNW	3	0	29.79	− ·08	61	54	0	WNW	5	0	*	0	*	66	57	—
	Wiesbaden ...	*	*	*	*	*	29.88	− ·13	59	56	− 4	2	0	b	*	*	*	73	50	—
	Munich	30.00	64	W	4	bc	29.95	− ·10	65	61	+ 3	SW	3	b	*	bc	*	75	57	—
	The Helder ...	29.94	60	NW	2	bc	29.80	− ·18	58	54	− 4	W	2	c	1	bc	*	63	57	—
BELGIUM.	Brussels ...	*	*	*	*	*	29.87	− ·22	56	56	− 3	SE	1	f	*	b	*	72	51	—
	Cape Gris Nez ...	29.97	62	ENE	1	b	29.83	− ·21	61	58	+ 2	SE	1	b	0	b	*	68	54	—
	Paris	29.97	74	NE	1	b	29.85	− ·23	62	60	− 2	SE	1	c	*	b	*	79	57	—
	Brest	29.95	65	NW	1	c	29.79	− ·25	59	59	− 4	NW	1	f	2	c	*	72	54	—
	Lorient	30.16	69	W	6	bc	29.78	− ·26	64	62	+ 1	WNW	2	c	5	bc	*	79	55	—
FRANCE &	Rochefort ...														*		*			
	Belfort	29.95	69	SSW	1	c	29.89	− ·15	64	61	+ 3	W	1	m	*	c	*	77	55	—
	Lyons	29.93	77	N	1	b	29.88	− ·14	69	62	− 2	SE	1	b	*	b	*	83	61	—
	Nice	29.84	75	2	0	c	29.84	− ·01	75	62	− 3	2	0	b	0	c	*	88	68	—
	Perpignan ...	29.91	85	N	2	bc	29.85	− ·16	75	68	− 3	NE	2	b	*	bc	*	92	63	—
	Biarritz ...	29.97	75	WNW	3	b	29.79	− ·25	71	68	− 1	SW	2	bc	1	b	*	81	68	—
PENINSULA	Corunna ...																*			
	Lisbon	30.02	67	NW	4	b	29.97	− ·14	69	65	− 2	SW	4	bc	*	b	*	86	66	—
	Azores (P. Delgada)	30.02	69	W	4	b	30.02		67	62		W	2	bc	2	bc	*	72	63	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

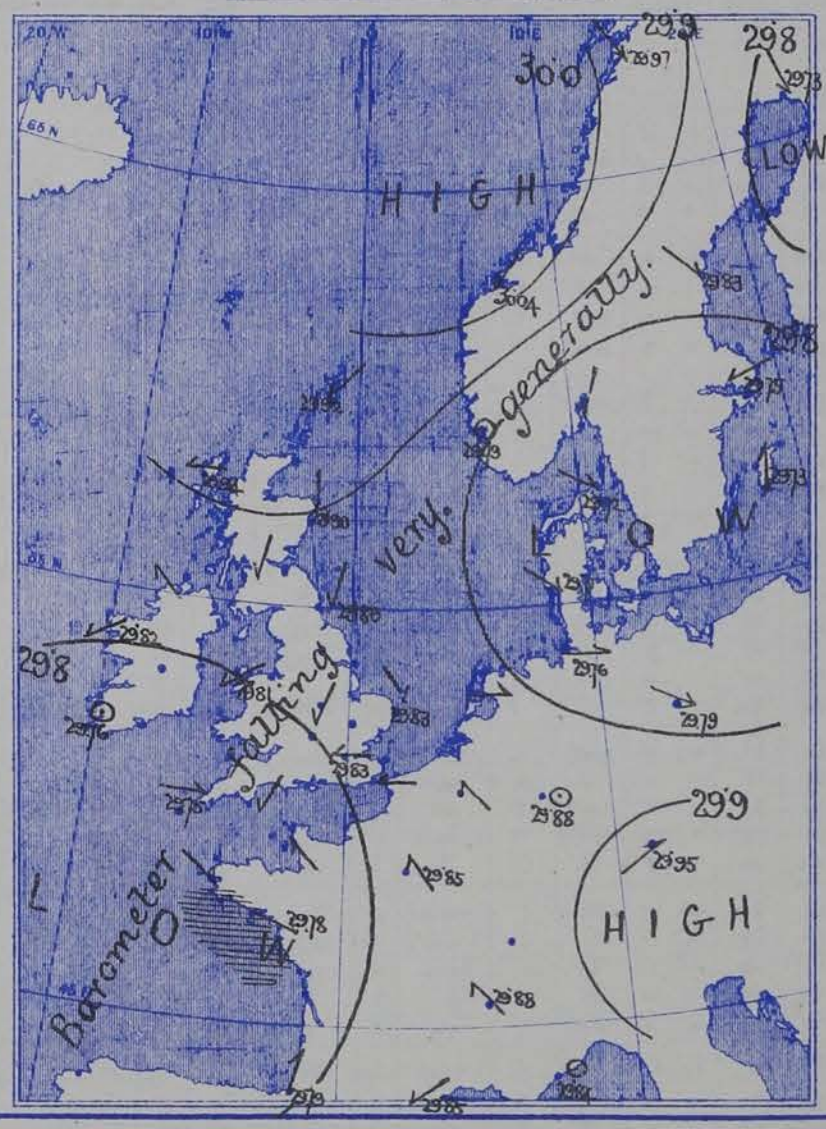
Bright Sunshine yesterday Southport ? hrs;

WEATHER CHARTS

FOR Monday, 19th July, 1897.

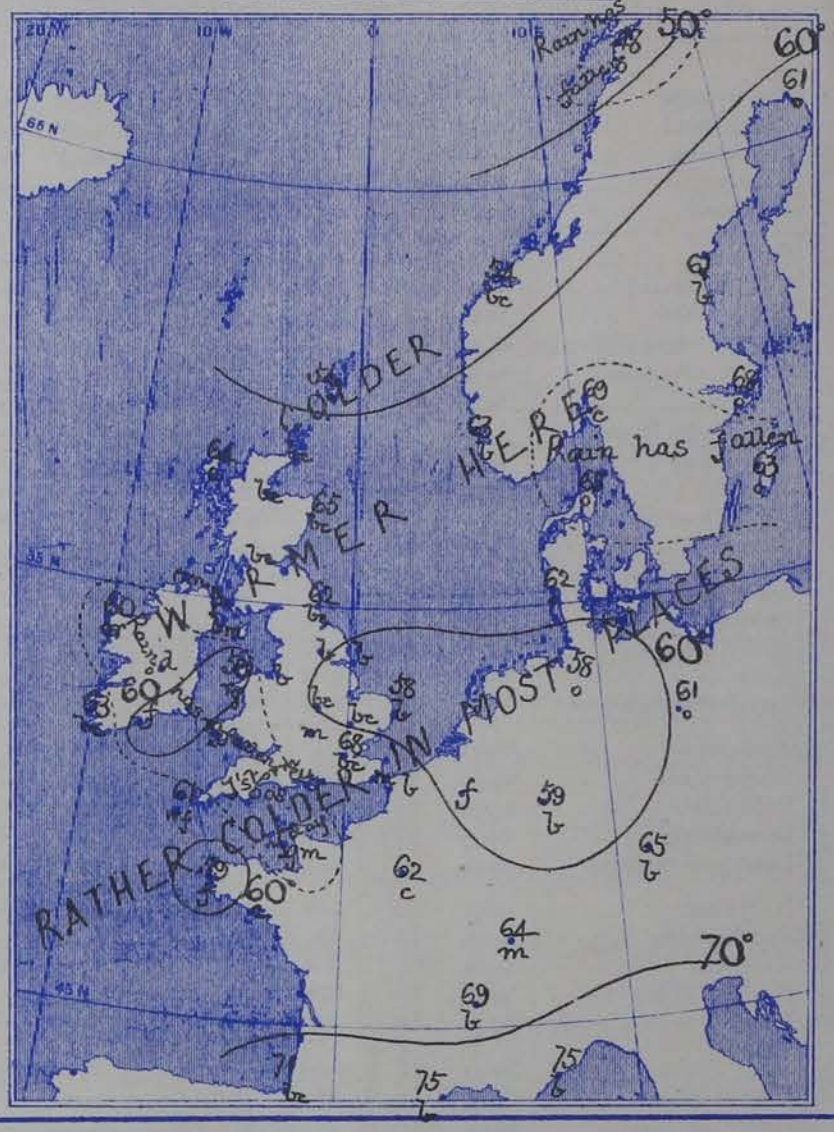
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.04 ins. at Christiansund; 29.9 ins. and upwards in a large area lying over the north of Scotland & the northwestern parts of Norway, & also in two other systems lying respectively over South Germany & over the southern part of the Spanish Peninsula. Lowest 29.8 ins. and less in two large areas; – one spreading from the Atlantic over all the more South-western parts of the United Kingdom & the western parts of France, the other lying over Denmark North Germany & the south of Scandinavia. Gradients slight generally, but moderate over the west of Norway. Barometer falling in all parts of an area.

TEMPERATURE

Highest (1) 75° at Nice & Perpignan, 71° at Biarritz & 69° at Lyons; (2) 71° at Karlstad & 69° at Jaerder; (3) 68° in London and 67° at Hurst Castle.
Lowest (1) 48° at Bodö & 54° at Christiansund & Lunburgh Head; (2) 54° at Cambridge & 56° at Brussels.
During yesterday the thermometer rose to 75° at Llanowary, to 80° at several of the English stations, and to 82° at Loughborough.

WIND

Light to moderate from the N^wd^ on our north and East Coasts and from the NE^wd^ or E^wd^ in most other parts of the United Kingdom.
SE^ly^ over the norther & central parts of France; W^ly^ or NW^ly^ over the Bay of Biscay.
N^ly^ (NE^ly^ to NW^ly^) at most of the Scandinavian stations; W^ly^ in Denmark and North Germany.

WEATHER

Fair or fine over Western Europe as a whole, but misty or foggy on many parts of our own western Coasts and rainy at Beaumillet, Holyhead & Pembroke.
Dull over Denmark, North Germany & the south of Sweden.
Since yesterday morning rain has fallen at several of our western stations, & thunderstorms have occurred over the western parts of the English Channel, with 0.5 in. of rain at Prawle Point.

SEA

Slight or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The distribution of pressure is becoming rather complex. The two low pressure areas noticed above seem likely to coalesce, and unsettled thundery weather will probably set in shortly over the greater part of England.

FORECASTS

For the 24 hours ending at NOON on 20TH JULY 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	NE^ly^ winds, light; fine generally.	6 SCOTLAND WEST	Same as No. 2.
2 ENGLAND N.E.	NE^ly^ winds, light or moderate; fair at first, some rain later, possibly thunder.	7 ENGLAND N.W.	NE^ly^ winds, light; unsettled, some rain, thunder locally.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	E^ly^ winds, light; fair at first, then rainy, and probably thundery.	8 ENGLAND S.W.	Light variable breezes; unsettled, some rain, thunder locally.
		9 IRELAND NORTH 10 IRELAND SOUTH	Same as No. 7.
		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.95	63	57	NNW	4	bc	1
Sumburgh Head							
Stornoway	30.03	71	64	W	0	b	0
Aberdeen							
Shields							
Ardrossan							
Malin Head ...	29.98	62	60	SE	2	bc	0
Belmullet	29.94	68	64	ENE	1	0	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	30.04	71	61	SW	3	0	3
Hurst Castle ...							
Dungeness ...	30.03	65	60	SE	2	b	1
North Foreland	30.04	64	57	NE	2	b	1
London (Westminster)							*
Yarmouth ...							
Rochefort ...	30.02	78	74	NW	3	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental Information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD
FROM JULY 11TH to 17TH 1897.

The anticyclone which spread over our islands after the 9th inst. remained in force throughout the whole of last week, and the weather was therefore, upon the whole, fair and dry, with a large amount of bright sunshine.

At the commencement of the week the central portion of the anticyclone drifted from our islands to Scandinavia in which position it remained until the middle of the period. The variable breezes hitherto reported were, therefore, followed by E. or NE. winds which blew with considerable strength on the more exposed parts of our south and southeast coasts. After the 14th, however, a shallow, though well marked, depression appeared over Germany & the Baltic & for the remainder of the time the highest pressures were found over our islands and France, the wind being N. on our East Coasts, but very variable in other regions. These conditions were accompanied by a general increase of cloud, with rain in the west and south of Ireland on the 16th inst.; — the only fall noticed over the United Kingdom during the entire week.

In France thunderstorms and heavy falls of rain were reported on several occasions.

Temperature was high for the time of year excepting at our northeast coast stations where the maximum temperatures were seldom much above 60°. Over the central and southern parts of the Kingdom the thermometer frequently exceeded 75° and in some cases rose to 80° or slightly above it.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Tuesday 20th July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.65	68	N	4	bc	30.02	+ .29	52	46	− 9	N	6	c	*	bc	*	70	52	—
	Hernösand ...	29.64	66	N	0	c	29.98	+ .15	60	55	− 7	NE	6	c	*	c	*	87	54	—
	Stockholm ...	29.78	61	N	0	bc	29.80	+ .05	64	62	− 4	ESE	2	o	*	bc	*	68	59	0.63
	Wisby	29.78	60	SE	4	b	29.83	+ .10	61	59	− 2	SSE	4	r	*	b	*	66	55	—
	Karlstad ...	29.73	73	ENE	4	r	29.74	− .02	62	60	− 9	ENE	2	r	*	r	*	*	*	0.20
	Bodö	29.85	50	NE	2	b	30.02	+ .05	61	53	+ 13	E	4	b	1	b	*	61	46	—
	Christiansund ...	29.94	57	ENE	2	b	29.78	− .26	56	52	+ 2	ENE	2	b	1	b	*	63	48	—
	Skudesnaes ...	29.71	64	W	2	b	29.71	− .08	66	64	+ 3	N	0	b	1	b	*	78	54	*
	Færder (Christiania Fjord)	29.72	68	SSE	1	o	29.73	− .03	63	61	− 6	NE	4	o	2	o	*	73	61	0.04
	Skagen (The Scaw)	29.66	64	E	3	c	29.66	− .06	63	61	− 2	E	2	o	0	c	*	68	61	0.08
	Fanö	29.65	61	WNW	2	o	29.62	− .09	62	61	0	W	2	c	*	o	*	66	61	0.16
BRITISH ISLANDS.	Sumburgh Head	29.83	58	NE	4	bc	29.75	− .17	59	53	+ 5	NE	2	b	4	bc	*	62	51	—
	Stornoway ...	29.83	65	E	3	o	29.79	− .15	58	55	− 6	E	3	o	4	c,o	7.2	71	52	—
	Wick	29.82	58	N	1	bc	29.81	− .15	58	54	− 4	N	3	b	2	bc	*	65	50	—
	Nairn	29.84	68	E	2	b	29.76	− .17	58	54	0	ENE	1	o	1	b	*	72	52	—
	Aberdeen ...	29.78	58	NE	3	bc	29.73	− .17	59	54	− 6	NNE	3	c	3	bcq,bc	9.7	69	54	—
	Leith	29.76	61	NE	1	b	29.70	− .19	56	55	− 8	E	3	o	*	b	*	72	54	0.02
	Shields	29.73	57	NNE	3	c	29.65	− .21	55	54	− 7	N	3	p	3	b,c	*	63	53	—
	Spurn Head ...	29.70	57	N	4	o	29.64	− .18	54	54	− 4	ENE	2	o	3	o,d	*	63	53	—
	York	29.70	69	NE	1	b	29.65	− .19	56	54	− 7	N	2	o	*	b	1.45	73	52	—
	Loughborough ...	29.66	73	ESE	3	c	29.64	− .21	56	54	− 3	ENE	1	ogm	*	bc,c,op	*	77	54	0.04
	Ardrossan ...	29.68	72	NE	3	bm	29.65	− .22	59	57	− 5	NE	3	om	2	bm	*	77	53	—
	Malin Head ...	29.73	65	E	1	bc	29.65	− .20	55	53	− 4	ESE	3	om	1	bc	*	65	53	—
	Belmullet ...	29.72	62	ENE	1	o	29.67	− .15	63	59	+ 3	ENE	1	c	*	o	*	67	?	0.07
	Donaghadee ...	29.71	71	NNW	2	b	29.66	− .22	55	52	− 7	NNW	3	bc	1	b	*	72	47	—
	Liverpool (Bidston)	29.65	68	W	1	cm	29.62	− .20	56	52	− 9	E	2	o	?	cm	*	75	56	—
	Holyhead ...	29.67	62	NE	2	op	29.60	− .21	61	60	+ 2	NW	1	cm	0	omp,op	*	67	57	0.04
	Parsonstown ...	29.68	61	E	1	or	29.61	− .17	57	55	− 5	N	0	c	*	or	0.0	65	53	0.32
	Valencia ...	29.65	63	N	0	o	29.61	− .15	64	61	+ 1	SE	1	om	2	c,o	5.5	69	57	0.04
	Roche's Point ..	29.66	63	SSE	2	c	29.60	− .19	61	60	+ 3	N	2	o	3	c,r	*	65	58	0.40
	Pembroke (St. Ann's Hd.)	29.64	61	SE	4	o	29.57	− .20	60	59	− 1	SE	2	o	2	o	0.0	61	57	0.09
	Scilly	29.64	66	SSW	1	c	29.54	− .21	60	59	− 1	N	3	or	1	c,l	7.4	70	59	0.06
	Prawle Point ..	29.63	59	W	2	m	29.60	− .15	59	58	0	SSE	2	o	2	cm,p	*	62	57	0.05
	Jersey (St. Aubin's)	29.65	66	WNW	2	cgm	29.63	− .11	66	63	+ 1	SW	3	c	3	cmg	*	69	58	—
	Hurst Castle ...	29.63	63	ENE	2	ow	29.61	− .16	65	63	− 2	SW	1	cm	2	tlr,om,ow	*	69	59	0.06
	Dungeness ...	29.63	60	NE	3	tp	29.62	− .20	61	59	− 4	SW	2	c	2	c,tlr	*	69	58	0.44
	North Foreland	29.67	61	E	2	o	29.64	− .21	63	60	+ 2	S	2	c	2	o	*	64	58	0.13
	London (Brixton) ...	29.65	69	E	2	o	29.61	− .22	63	61	− 5	SW	2	o	*	o,rh,tl,bc	4.5	79	58	0.60
	Oxford	29.65	61	N	0	r	29.60	− .22	57	56	− 6	E	1	od	*	c,or	*	76	55	0.18
	Cambridge ...	29.66	69	NNE	2	o	29.61	− .25	58	57	+ 4	NNE	1	fg	*	b,or	9.6	76	53	0.05
	Yarmouth ...	29.69	61	E	2	b	29.63	− .20	60	58	+ 2	E	2	c	3	b	*	62	55	0.05
GERMANY & HOLLAND.	Cuxhaven ...	29.69	61	WNW	2	c	29.64	− .12	59	58	+ 1	N	0	bc	*	c	*	63	50	—
	Berlin	29.74	68	WNW	1	b	29.71	− .08	65	59	+ 4	SSE	1	bc	*	b	*	75	57	—
	Wiesbaden ...	*	*	*	*	*	29.72	− .16	66	63	+ 7	SW	3	b	*	*	*	79	59	0.04
	Munich... ..	29.84	67	SE	2	b	29.84	− .11	72	66	+ 7	N	0	bc	*	b	*	77	61	—
	The Helder ...	29.69	63	NW	1	b	29.64	− .16	60	57	+ 2	N	0	o	1	b	*	64	57	—
FRANCE & BELGIUM.	Brussels ...	*	*	*	*	*	29.67	− .20	65	63	+ 9	SSW	2	c	*	o	*	77	56	0.08
	Cape Gris Nez...	29.66	63	ESE	2	r	29.64	− .19	60	59	− 1	WSW	1	m	1	r	*	66	57	0.04
	Paris	29.69	69	S	1	b	29.71	− .14	63	62	+ 1	SW	2	o	*	b	*	79	59	0.04
	Brest	29.67	65	S	1	c	29.57	− .22	62	61	+ 3	S	1	c	2	c	*	68	55	—
	Lorient... ...	29.69	67	SW	3	c	29.63	− .15	64	63	0	WSW	4	r	5	c	*	79	61	0.08
	Rochefort ...	29.74	73	NW	2	bc	29.73	− .09	67	66	− 2	WSW	3	r	*	c,tlr	*	77	62	0.08
	Belfort	29.70	74	NE	1	o	29.76	− .13	62	61	− 2	WSW	1	m	*	o	*	82	56	0.28
	Lyons	29.71	72	W	1	tlr	29.75	− .13	65	62	− 4	SSW	1	o	*	tlr	*	89	63	0.24
	Nice	29.77	75	SW	2	bc	29.84	.00	74	63	− 1	N	0	bc	1	bc	*	84	66	—
	Perpignan ...	29.65	86	NE	3	bc	29.74	− .11	73	70	− 2	N	0	b	*	bc	*	100	66	—
	Biarritz ...	29.75	73	NW	3	o	29.73	− .06	72	68	+ 1	ESE	2	b	2	o	*	82	66	—
PENINSULA.	Corunna ...																*			
	Lisbon	29.93	68	W	1	b	29.98	+ .01	68	64	− 1	WSW	3	o	*	b	*	73	64	—
	Azores (P. Delgada)	30.04	66	W	2	bc	30.05	+ .03	67	65	0	N	0	c	2	bc	*	72	63	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

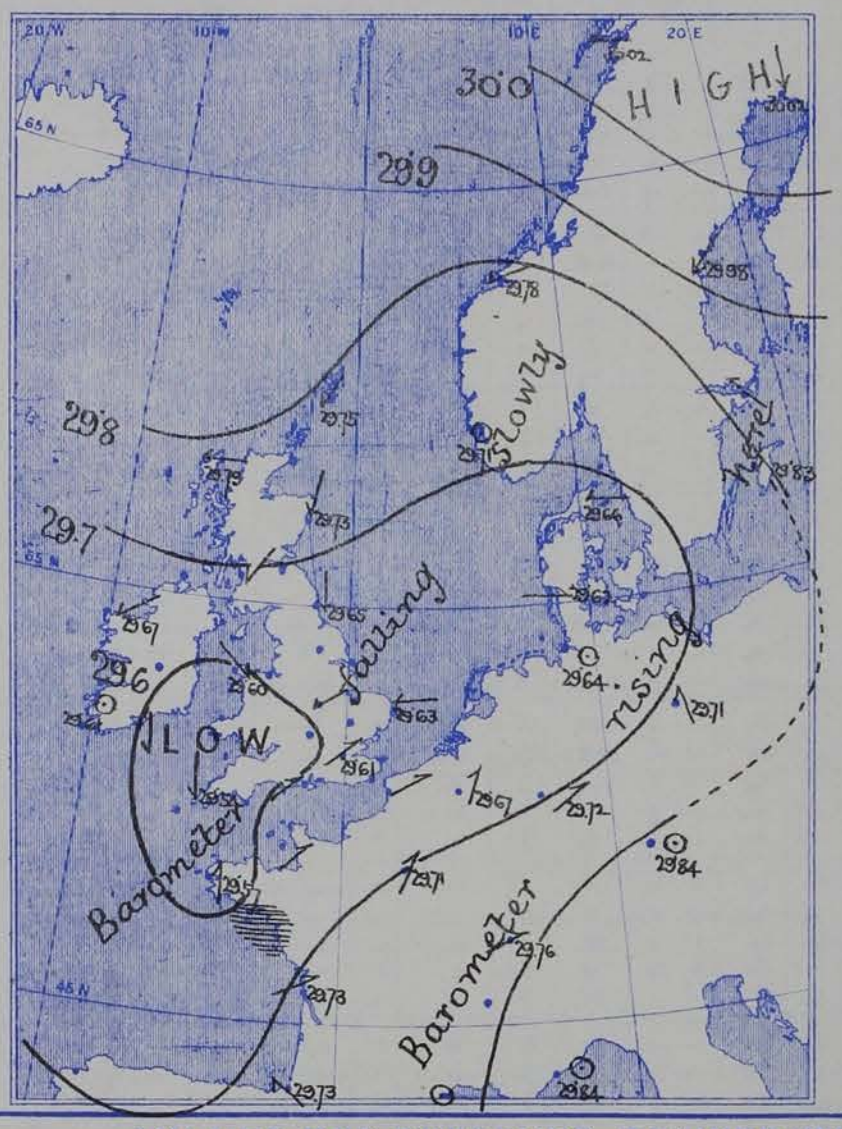
Bright Sunshine yesterday Southport 12.6 *hrs;*

WEATHER CHARTS

FOR Tuesday, 20th July, 1897.

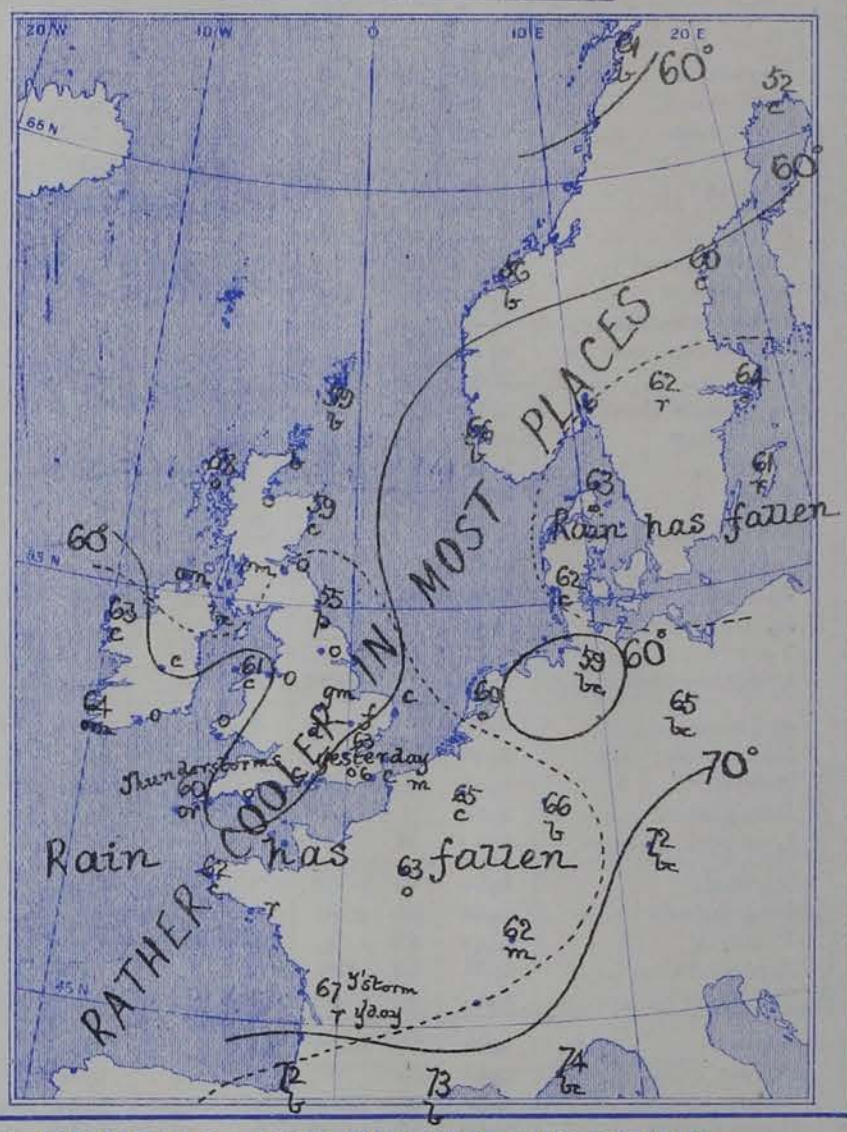
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 · 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest (1) 30.0 in. and more over Lapland, and exceeding 29.8 in. over the northern parts both of Scandinavia and Scotland; (2) 29.8 in. and more over the southeast of France.
Lowest 29.6 in. and less in a shallow depression covering the southwestern parts of our islands and in another over Denmark.
Gradients slight, but distribution very complex.
Barometer changing little and irregularly.

TEMPERATURE

Highest 74° to 72° over the southern parts of France, 72° at Munich & above 60° all over France, & in Denmark & south of Sweden as well as on southern coasts.
Lowest 54° to 56° over the northeastern counties of England, 55° at Malin Head and Donaghadee, 52° at Haparanda.
It has fallen considerably over our northern districts. The maxima recorded yesterday ranged between 70° & 79° in many part of our islands, & touched 75° at Berlin, 79° at Paris, 84° at Nice and 100° at Perpignan.

WIND

Light generally; chiefly from NE. at our northern stations, very variable directions over England and from SW. over the Channel and France.

WEATHER

Fair over Scotland. Very changeable over England, Ireland and France.
In the latter region rain has fallen generally – in some localities heavily – and in several places thunderstorms occurred. Bright sunshine recorded yesterday was very considerable at our northern and eastern stations, slight in the southwest; – there was none at all at some stations.

SEA

Rather rough at Lorient – smooth over the English and Irish Channels and along our Eastern Coasts.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Very changeable weather is still probable – showers, with bright intervals, and in some places, thunder and lightning.

FORECASTS

For the 24 hours ending at NOON on 21st JULY 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NE⅓ and E⅓ breezes; weather changeable, some rain.	6 SCOTLAND WEST	Same as Nos 0 and 1.
1 SCOTLAND EAST		7 ENGLAND N.W.	Variable airs; rain at times, thunder in places.
2 ENGLAND N.E.	Same as No 4.	8 ENGLAND S.W.	
3 ENGLAND EAST	Same as No 5.	9 IRELAND NORTH	
4 MIDLAND COUNTIES	NE⅓ and varying airs; weather very changeable, thunder-showers at times.	10 IRELAND SOUTH	
5 ENGLAND SOUTH	S⅓ and very variable winds; changeable weather, thunder and rain at times.	WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.71	74	70	NW	4	b	1
Sumburgh Head	29.86	61	54	NE	4	bc	4
Stornoway	29.88	69	61	E	2	c	2
Aberdeen	29.82	67	58	N	5	bcq	3
Shields	29.78	60	56	NNE	4	b	3
Ardrossan	29.73	75	70	NE	3	bc	2
Malin Head ...	29.79	61	57	SE	2	bc	2
Belmullet	29.76	65	62	ENE	1	o	*
Holyhead	29.73	65	63	NE	2	comp	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.69	62	59	W	2	c	3
Scilly	29.67	70	63	SSE	2	c	1
Jersey	29.69	67	63	WSW	3	b	3
Hurst Castle ...	29.69	65	61	E	2	om	2
Dungeness ...	29.71	64	59	ENE	3	c	2
North Foreland	29.78	62	58	E	2	c	2
London (Westminster)	29.69	75	63	E	2	o	
Yarmouth ...	29.73	62	58	ENE	2	b	3 *
Rochefort ...	29.71	75	73	NNW	2	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine and bright in most places, but very cloudy and unsettled over the western and southern parts of the British Islands as well as over the north of Russia and the greater part of the Baltic and Central Europe, where the sky was overcast and rain and mist were reported locally. Rain falling later over France & England and the southern half of Ireland as well as in many parts of Scandinavia, and slight showers in some parts of Scotland; thunderstorms occurring in the south of England and the southwest of France.

Temperature risen over Great Britain and the south of Scandinavia, fallen rapidly over the north of Russia and at Sumburgh Head. Highest (1) 85° at Algiers, 81° at Tunis, and exceeding 70° over all the southern and southeastern part of Europe; 77° at Moscow, 71° at Karlstad, 68° in London. Lowest 48° at Bodö, 53° at Archangel, 54° at Sumburgh Head and at Wimbler, 56° at Brussels, 58° at Spurn Head, Rising later to between 70° and 79° over many parts of Scotland and England, to 79° at Wiesbaden & Paris to 82° at Belfort & 100° at Perpignan.

Wind moderate from between NW and NE over Scotland & the northern parts of Scandinavia, light and extremely variable elsewhere, but mainly cyclonic - (1) over our southwestern districts and the northwest of France and (2) over the Baltic, the south of Scandinavia and North Germany. Becoming still more variable over the southern parts of the British Islands later, but remaining light in force.

Barometer highest (1) 30.0 ins. and more to 29.9 ins over the northwest of Norway and the northern part of Scotland; (2) 29.9 ins. and more over the southwestern half of Spain & over Morocco. Lowest 29.7 ins. in two depressions - one over the Baltic and the other over the Black Sea; below 29.8 ins. in a third over the southwest of our islands & the northwest of France, and in a fourth over the east of Lapland and north of Finland. Falling over western Europe all day, and distribution becoming very complex.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
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DAILY WEATHER REPORT

for 8 a.m. on Wednesday 21st July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·04	58	2	0	b	30·04	+ ·02	60	54	+ 8	SSW	2	b	*	b	*	66	46	—
	Hernösand ...	29·97	58	NE	6	0	29·95	— ·03	61	57	+ 1	N	4	0	*	0	*	68	57	—
	Stockholm ...	29·84	63	ESE	2	0	29·88	+ ·08	68	63	+ 4	NE	2	c	*	0	*	68	57	0·08
	Wisby	29·80	61	NW	4	b	29·84	+ ·01	60	59	— 1	E	4	0	*	b	*	66	54	0·35
	Karlstad ...	29·79	60	NE	2	0	29·85	+ ·11	65	61	+ 3	NE	2	0	*	r.0	*	*	*	0·32
	Bodö	29·95	60	N	2	b	29·94	— ·08	65	55	+ 4	E	2	be	1	b	*	65	52	—
	Christiansund ...	29·79	60	2	0	b	29·84	+ ·06	60	57	+ 4	2	0	b	1	b	*	68	50	—
	Skudesnaes ...	29·73	66	NW	2	c	29·78	+ ·07	68	61	+ 2	2	0	c	1	be, e	*	70	54	*
	Færder (Christiania Fjord)	29·74	63	NE	5	0	29·81	+ ·08	63	61	0	NE	4	0	2	0	*	64	61	0·20
	Skagen (The Scaw)	29·71	66	SSW	1	bc	29·77	+ ·11	66	62	+ 3	ESE	2	m	0	be	*	79	63	—
	Fanö	29·67	60	2	0	c	29·69	+ ·07	61	60	— 1	2	0	0	*	c	*	66	55	—
BRITISH ISLANDS.	Sumburgh Head	29·72	54	N	1	0	29·77	+ ·02	53	52	— 6	NW	1	0	2	0	*	59	50	—
	Stornoway ...	29·77	61	E	4	c	29·79	·00	55	54	— 3	E	3	or	3	c	8·1	69	51	0·01
	Wick	29·78	56	N	1	0	29·81	·00	56	55	— 2	N	1	0	0	0	*	61	50	—
	Nairn	29·73	60	E	2	b	29·78	+ ·02	55	52	— 3	2	0	0	1	b	*	65	52	—
	Aberdeen ...	29·73	57	NNE	4	c	29·78	+ ·05	53	52	— 6	NNE	3	ofg	3	cq, c	4·1	63	52	0·04
	Leith	29·70	53	E	3	r	29·73	+ ·03	54	53	— 2	2	0	0	*	r	*	56	51	0·91
	Shields	29·63	56	NE	1	or	29·67	+ ·02	54	54	— 1	N	3	d	3	or	*	57	53	0·92
	Spurn Head ...	29·68	61	S	1	c	29·68	+ ·04	61	59	+ 7	S	1	c	2	c	*	61	54	—
	York	29·62	61	NNW	1	c	29·68	+ ·03	58	56	+ 2	NW	1	0	*	c	0·0	61	54	—
	Loughborough ...	29·62	61	W	1	0	29·69	+ ·05	61	58	+ 5	E	1	cmw	*	cp, om, f	*	62	52	0·04
	Ardrossan ...	29·64	59	NE	1	rm	29·74	+ ·09	56	55	— 3	N	1	cm	1	rm	*	61	52	0·31
	Malin Head ...	29·67	59	E	2	ogm	29·75	+ ·10	59	57	+ 4	NNW	3	omg	2	omg	*	62	54	—
	Belmullet ...	29·66	63	ENE	1	0	29·81	+ ·14	61	59	— 2	ENE	1	c	*	0	*	68	54	—
	Donaghadee ...	29·66	56	NW	3	d	29·75	+ ·09	54	54	— 1	NW	3	mw	1	d	*	63	53	0·11
	Liverpool (Bidston)	29·61	57	ENE	1	r	29·69	+ ·07	61	56	+ 5	ENE	1	c	1	o.r	*	61	55	0·07
	Holyhead ...	29·61	57	NE	1	df	29·70	+ ·10	57	57	— 4	N	2	f	1	df, fd	*	61	55	0·02
	Parsonstown ...	29·61	69	E	1	be	29·75	+ ·14	60	58	+ 3	2	0	be	*	be	6·2	69	56	—
	Valencia ...	29·67	64	2	0	bem	29·79	+ ·18	60	58	— 4	WNW	2	am	3	bem	6·2	66	55	—
	Roche's Point ..	29·62	63	ESE	1	c	29·76	+ ·16	61	58	0	NNW	3	0	3	c	*	65	59	—
	Pembroke (St. Ann's Hd.)	29·62	64	NW	2	c	29·71	+ ·14	56	55	— 4	NW	2	rg	2	c	5·2	64	55	0·19
	Scilly	29·62	63	WNW	2	be	29·75	+ ·21	63	60	+ 3	W	3	om	2	be	8·8	67	59	—
	Prawle Point ...	29·60	62	SE	1	c	29·73	+ ·13	62	61	+ 3	NW	2	0	2	c, or	*	65	57	0·38
	Jersey (St. Aubin's)	29·60	66	SSE	2	c	29·76	+ ·13	63	61	— 3	SW	3	og	3	be, cg	*	71	59	—
	Hurst Castle ...	29·61	69	SW	2	c	29·69	+ ·08	64	62	— 1	WSW	2	cw	2	cw, c	*	70	60	—
	Dungeness ...	29·60	65	SW	3	bc	29·68	+ ·06	61	59	0	WSW	3	m	2	c, be, f	*	68	57	0·01
	North Foreland	29·60	70	SSW	2	bc	29·69	+ ·05	62	60	— 1	W	3	0	2	b, be	*	71	57	—
	London (Brixton) ...	29·58	67	W	2	bc	29·70	+ ·09	59	57	— 4	SE	1	0	*	be, pth, b	4·4	79	55	—
	Oxford	29·61	58	2	0	c	29·70	+ ·10	58	57	+ 1	2	0	ow	*	c, thr, c	*	73	56	1·66
	Cambridge ...	29·60	63	NNW	1	ow	29·70	+ ·09	58	58	0	N	1	om	*	b, o, r	3·9	73	54	0·04
	Yarmouth ...	29·59	65	SSE	2	c	29·65	+ ·02	60	58	0	NW	2	c	2	b, c.	*	65	57	—
GERMANY & HOLLAND.	Cuxhaven ...	29·65	63	NW	1	bc	29·67	+ ·03	59	58	0	NE	1	or	*	bc	*	66	59	0·04
	Berlin	29·65†	75	ESE	1	b	29·69	— ·02	65	63	0	WSW	1	0	*	b	*	82	64	0·16
	Wiesbaden ...	*	*	*	*	*	29·75	+ ·03	65	62	— 1	NW	1	bc	*	*	*	81	59	—
	Munich... ..	29·69	70	SE	4	r	29·86	+ ·02	62	60	— 10	SW	1	bc	*	r	*	81	59	0·98
	The Helder ...	29·62	71	WSW	1	b	29·65	+ ·01	64	61	+ 4	E	1	bc	1	b	*	72	60	0·04
BELGIUM.	Brussels ...	*	*	*	*	*	29·69	+ ·02	63	61	— 2	SSW	1	r	*	c	*	77	57	—
	Cape Gris Nez...	29·69	64	WSW	1	bc	29·66	+ ·02	60	60	0	WNW	2	m	1	bc	*	68	59	—
	Paris	29·71	70	WNW	2	b	29·75	+ ·04	62	60	— 1	SW	2	c	*	b	*	75	60	0·14
	Brest	29·67	66	NW	1	c	29·78	+ ·21	61	60	— 1	W	2	c	3	c	*	70	57	0·08
	Lorient... ...	29·66	66	WSW	5	r	29·81	+ ·18	63	63	— 1	W	4	r	5	r	*	72	59	0·71
FRANCE &	Rochefort ...	29·75	69	W	6	bc	29·86	+ ·13	66	65	— 1	WNW	5	c	*	thr, be	*	75	61	1·18
	Belfort	29·71	65	ESE	1	0	29·86	+ ·10	60	58	— 2	WSW	3	0	*	0	*	76	59	0·08
	Lyons	29·77	64	NNE	1	0	29·88	+ ·13	67	60	+ 2	W	2	be	*	thth, 0	*	80	60	2·52
	Nice	29·71	78	SE	2	b	29·71	— ·13	76	60	+ 2	2	0	b	1	b	*	86	66	—
	Perpignan ...	29·75	81	2	0	c	29·96	+ ·22	75	65	+ 2	W	2	b	*	c	*	86	62	—
	Biarritz ...	29·85	73	NNW	3	bc	29·96	+ ·23	68	66	— 4	WNW	6	r	4	bc	*	81	63	0·79
PENINSULA.	Corunna ...																*			
	Lisbon	30·06	66	NW	4	b	30·12	+ ·14	68	62	0	NNW	4	b	*	b	*	77	63	—
	Azores (P. Delgada)	30·09	68	SSW	4	b	30·11	+ ·06	69	67	+ 2	SSW	4	bc	4	b	*	72	66	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 0·0 hrs;

WEATHER CHARTS

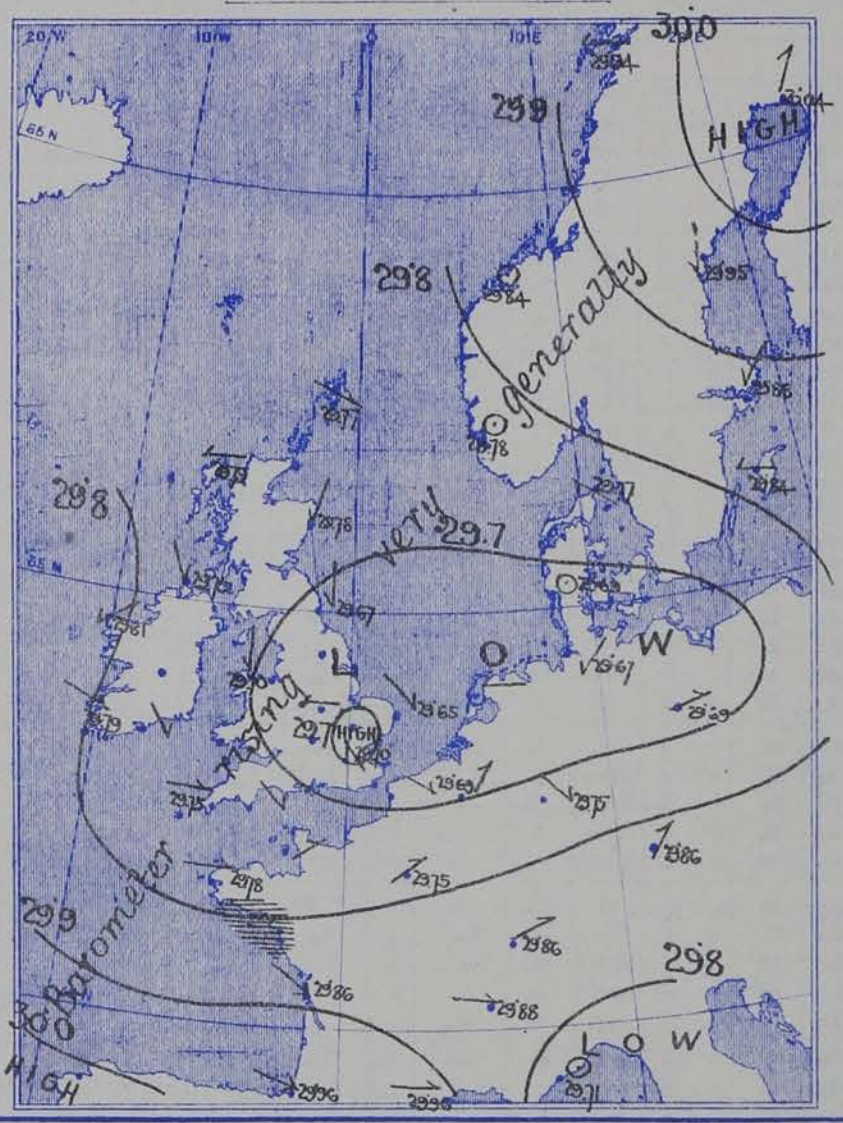
FOR Wednesday, 21st July, 1897.

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 56	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	--	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95.

† The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·1 ins. and upwards over Portugal; 30·0 ins. and upwards in Lapland.
Lowest 29·7 ins. and less in a large shallow depression lying over England, the Netherlands, North Germany and the southern parts of the North Sea.
Gradients slight. Barometer rising a little generally.

TEMPERATURE

Highest (1) 76° at Nice, 75° at Perpignan, 68° at Biarritz & Lisbon & 67° at Lyons; (2) 68° at Shudesnaes & Stockholm & 66° at the Skaw.
Lowest 53° at Lumburgh Head and Aberdeen, 54° at Leith, Shields & Donaghadee and 55° at Stornoway & Nairn.
During yesterday the thermometer rose to 70° and upwards at several of our southern stations, and to 79° in London. On some parts of our northeast coasts the thermometer did not reach 60°.

WIND

Light from the N^wd or NW^wd on our western and northern coasts and from the W^wd or SW^wd over the English Channel, Central France and Germany; fresh to strong from the W^wd over the southwestern part of France. E^ly or NE^ly in the south of Scandinavia; calm in the west of Norway; variable in the north of Scandinavia.

WEATHER

Cloudy or dull over our islands & the north and west of France, with rain at one or two of our own western and northern stations, as well as at Lorient and Biarritz.
Fine over the Netherlands, the western & southern parts of Germany & Central & Southern France, as well as in the north of Scandinavia.
Dull over Denmark, North Germany and the south of Sweden, with slight rain at Cuxhaven.
Thunderstorms occurred yesterday in many parts of England & France the accompanying rainfall amounting to as much as 2·5 ins. at Lyons (where a heavy hailstorm occurred) 1·7 ins. at Oxford & 1·2 ins. at Rochefort. Heavy rain fell also at Ross, Herefordshire (1·1 ins.) and at Leith, Shields and Nairn.

SEA

Slight or smooth generally, but rather rough at Lorient.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The depressions noticed over our islands yesterday are filling up, and a temporary improvement in the weather is probable in most places. The type of pressure distribution is, however, still rather complex.

FORECASTS

For the 24 hours ending at NOON on 22nd JULY 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	N^ly and NE^ly winds, light; cloudy, some showers.	6 SCOTLAND WEST 7 ENGLAND N.W.	Same as No. 2.
2 ENGLAND N.E.	N^ly winds, light; cloudy, some showers.	8 ENGLAND S.W.	Same as Nos. 3 to 5.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	W^ly to NW^ly winds, light, some showers at first, then fair.	9 IRELAND NORTH 10 IRELAND SOUTH	N^ly winds, light; fair generally.
		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.70	69	64	W	2	bc	2
Sumburgh Head	29.73	56	53	NE	3	o	4
Stornoway	29.77	69	61	E	3	c	4
Aberdeen	29.73	57	53	NE	4	cq	4
Shields	29.62	55	55	N	3	r	3
Ardrossan	29.66	60	60	WNW	1	rm	1
Malin Head ...	29.67	61	58	E	3	c	1
Belmullet	29.66	64	60	ENE	1	o	*
Holyhead	29.61	60	59	NE	2	af	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.64	65	61	WNW	2	bcm	3
Scilly	29.56	66	61	NW	3	bc	1
Jersey	29.60	70	66	SE	3	bc	3
Hurst Castle ...	29.61	70	66	SSW	2	cm	2
Dungeness ...	29.61	67	62	SW	2	c	1
North Foreland	29.60	69	63	SE	3	b	3
London (Westminster)	29.58	75	62	SW	2	c	*
Yarmouth ...	29.59	65	62	E	3	b	3
Rochefort ...	29.75	67	67	SE	4	r	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull in all but the extreme northern parts of the United Kingdom, and also over France and the Netherlands, with rain at one or two of the English stations, and also at Lorient and Rochefort. Fine over the Continent as a whole, but dull over Denmark, the Baltic, and the south of Sweden, with rain at Karlstad and Visby. Thunderstorms occurring later in many parts of England and France, with heavy rain at Oxford, Lyons, and Rochefort. Heavy rain falling also at Leith and Shields, at Ross (Herefordshire) and at Wurzburg.

Temperature fallen in most places. Morning readings highest 90° at Algiers, 89° at La Calle, 88° at Palma and 84° at Sfax; above 75° at the Mediterranean and Adriatic stations generally and just touching that point at Moscow. Lowest (1) 52° at Haparanda; (2) 54° at Spurn Head and 55° at Shields, Malin Head and Donaghadee. Remaining below 60° all day on some parts of our northeast coasts, but exceeding 70° in the south of England and reaching 79° in London. Exceeding 80° over Germany and the south of France, and touching 86° at Nice and Perpignan.

Wind varying between N. and E. over all the more northern and eastern parts of our Islands and also over Scandinavia; light in force in most places. Very variable on our southwest coasts; light from the W. over the English Channel and the greater part of France. Calm or variable over Germany, Austria, Italy, and the south of France; W. or NW. over the Spanish Peninsula. No important change occurring over Western Europe during day.

Barometer highest 30·0 in. and upwards in the north of Scandinavia; 29·9 in. over Italy and also over the southern parts of the Spanish Peninsula. Lowest 29·6 in. and less. in a shallow depression lying over the southwest of our Islands; 29·7 in. and less. in another shallow disturbance over the extreme south of Russia. Former depression spreading northeastwards later over England; barometer rising again on our western coasts.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers: q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Thursday 22nd July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·00	60	L	0	b	29·99	− ·05	63	57	+ 3	S	2	b	*	b	*	70	45	—
	Hernösand ...	29·96	59	N	2	b	29·95	·00	64	59	+ 3	L	0	b	*	b	*	66	55	0·16
	Stockholm ...	29·90	66	L	0	0	29·84	− ·04	69	64	+ 1	NE	4	c	*	0	*	73	59	—
	Wisby	29·81	67	ESE	4	b	29·70	− ·14	73	66	+ 13	SE	4	b	*	b	*	75	52	—
	Karlstad ...	29·86	71	ENE	2	r	29·82	− ·03	69	61	+ 4	NE	4	b	*	r	*	*	*	—
	Bodö	29·94	58	N	2	b	29·97	+ ·03	55	50	− 10	N	1	b	0	b	*	65	50	—
	Christiansund ...	29·87	67	L	0	b	29·91	+ ·07	62	59	+ 2	L	0	b	1	b	*	70	57	—
	Skudesnaes ...	29·83	68	L	0	c	29·80	+ ·02	67	61	− 1	N	2	0	1	c	*	70	57	*
	Færder (Christiania Fjord)	29·83	68	NNW	2	c	29·79	− ·02	64	62	+ 1	N	3	0	2	c	*	68	63	0·08
	Skagen (The Scaw)	29·75	65	ENE	1	r	29·67	− ·10	63	62	− 3	E	3	r	1	r	*	73	61	0·47
	Fanö	29·71	62	NW	3	0	29·59	− ·10	62	61	+ 1	W	5	0	*	0	*	66	61	0·08
BRITISH ISLANDS.	Sumburgh Head	29·82	56	WNW	1	bc	29·89	+ ·12	51	50	− 2	N	1	0	1	bc	*	58	49	—
	Stornoway ...	29·83	61	E	3	bc	29·91	+ ·12	59	57	+ 4	E	3	0	3	0.bc	8·2	62	50	—
	Wick	29·87	56	N	1	c	29·93	+ ·12	55	52	− 1	N	2	0	0	c	*	64	50	—
	Nairn	29·82	58	E	3	c	29·90	+ ·12	61	56	+ 6	L	0	bc	0	c	*	62	52	—
	Aberdeen ...	29·84	57	N	1	og	29·91	+ ·13	57	54	+ 4	NW	3	og	2	p.og	0·0	57	53	0·16
	Leith	29·82	56	E	2	0	29·90	+ ·17	57	56	+ 3	L	0	0	*	0	*	57	52	0·13
	Shields	29·75	56	N	3	f	29·89	+ ·22	56	56	+ 2	NNW	2	or	3	o.rf	*	59	53	0·04
	Spurn Head ...	29·74	60	ESE	2	c	29·88	+ ·20	60	59	− 1	NNW	2	0	2	c	*	64	56	—
	York	29·75	67	NW	1	b	29·88	+ ·20	60	57	+ 2	NNW	1	c	*	b	4·9	68	55	—
	Loughborough ...	29·74	68	WNW	1	r	29·91	+ ·22	60	58	− 1	WNW	2	ogm	*	bc.bp.o	*	76	57	0·05
	Ardrossan ...	29·79	65	L	0	0	29·90	+ ·16	58	58	+ 2	NNW	1	om	1	of	*	65	54	—
	Malin Head ...	29·85	57	NNW	3	0	29·94	+ ·19	56	54	− 3	NNW	1	c	1	o	*	59	53	—
	Belmullet ...	29·93	59	N	1	c	30·00	+ ·19	58	54	− 3	WNW	1	o	*	o.c	*	62	54	—
	Donaghadee ...	29·83	61	NNW	3	b	29·94	+ ·19	59	56	+ 5	NW	3	m	1	b	*	65	49	—
	Liverpool (Bidston)	29·77	60	WNW	3	om	29·94	+ ·25	59	56	− 2	W	3	o	3	om	*	65	57	—
	Holyhead ...	29·82	58	NW	2	cp.	29·96	+ ·26	57	56	0	W	2	ogm	1	of cp	*	60	55	—
	Parsonstown ...	29·83	66	L	0	bc	30·00	+ ·25	58	55	− 2	L	0	o	*	bc.r	3·4	72	55	0·13
	Valencia ...	29·93	63	NNW	3	cm	30·04	+ ·25	60	57	0	W	3	og	3	cm	6·5	66	59	—
	Roche's Point ...	29·86	69	NNW	3	bc	30·04	+ ·28	60	57	− 1	NW	2	om	2	bc	*	70	59	—
	Pembroke (St. Ann's Hd.)	29·85	55	NNW	3	0	29·99	+ ·28	59	56	+ 3	NW	4	b	2	0	0·9	61	54	0·11
	Scilly	29·88	63	WNW	5	c	30·05	+ ·30	62	58	− 1	WNW	4	c	3	c	7·2	66	58	—
	Prawle Point ...	29·81	62	WSW	4	c	30·01	+ ·28	62	61	0	WNW	4	bc	3	c	*	63	56	—
	Jersey (St. Aubin's)	29·87	65	WNW	4	om	30·03	+ ·27	64	62	+ 1	W	4	cm	3	p.om	*	67	57	0·01
	Hurst Castle ...	29·80	63	WSW	3	om	29·95	+ ·26	63	60	− 1	WNW	1	bcm	1	o.tp.om	*	66	57	0·17
	Dungeness ...	29·75	67	WSW	3	c	29·89	+ ·21	65	61	+ 4	WNW	3	om	2	c.tl	*	68	56	—
	North Foreland	29·75	66	SW	2	0	29·90	+ ·21	63	60	+ 1	W	2	0	2	c.t.o	*	67	57	—
	London (Brixton) ...	29·73	67	NW	2	bc	29·92	+ ·22	60	58	+ 1	WSW	1	og	*	c.tl.bc	2·0	74	58	—
	Oxford	29·79	63	W	2	c	29·93	+ ·23	62	59	+ 4	NW	2	0	*	tlr.c	*	70	56	0·44
	Cambridge ...	29·76	62	N	1	t	29·91	+ ·21	61	60	+ 3	NW	1	om	*	c.trm	5·3	77	55	0·01
	Yarmouth ...	29·78	64	NNE	2	b	29·86	+ ·21	61	59	+ 1	WNW	1	bcf	2	b	*	65	54	—
GERMANY & HOLLAND.	Cuxhaven ...	29·71	63	N	2	0	29·72	+ ·05	61	60	+ 2	WNW	2	0	*	o.r	*	64	59	0·08
	Berlin	29·67	66	ESE	1	c	29·76	+ ·07	64	61	− 1	WSW	3	0	*	c	*	75	59	0·98
	Wiesbaden ...	*	*	*	*	*	29·91	+ ·16	64	60	− 1	SW	2	c	*	*	*	75	59	—
	Munich	29·93	62	SW	4	c	30·04	+ ·18	61	57	− 1	SW	5	0	*	c	*	70	57	0·55
	The Helder ...	29·72	66	NNW	1	b	29·80	+ ·15	61	59	− 3	NNW	1	0	1	b	*	68	61	—
BELGIUM.	Brussels ...	*	*	*	*	*									*		*			
	Cape Gris Nez	29·75	62	W	4	c	29·87	+ ·21	62	60	+ 2	WSW	1	m	1	c	*	66	59	—
	Paris	29·86	66	NW	1	bc	29·99	+ ·24	60	58	− 2	SW	2	0	*	bc	*	72	59	0·20
	Brest	29·95	66	WNW	2	c	30·08	+ ·30	61	59	0	WNW	1	0	1	c	*	68	57	—
	Lorient... ...	29·95	66	W	6	c	30·10	+ ·29	62	61	− 1	NW	4	bc	5	c	*	72	59	—
FRANCE &	Rochefort ...	29·99	69	WNW	6	c	30·07	+ ·31	66	64	0	WNW	5	c	*	c	*	78	63	—
	Belfort	29·88	63	W	2	0	30·01	+ ·15	59	57	− 1	W	3	r	*	0	*	68	57	0·43
	Lyons	29·93	72	S	1	bc	30·11	+ ·23	62	58	− 5	SE	1	0	*	bc	*	78	60	—
	Nice	29·70	84	NW	6	b	29·87	+ ·16	75	66	− 1	L	0	b	1	b	*	95	66	—
	Perpignan ...	29·99	78	W	3	0	30·15	+ ·19	71	60	− 4	W	2	b	*	0	*	86	64	—
	Biarritz ...	30·07	71	WNW	4	c	30·15	+ ·19	68	66	0	WSW	4	r	3	c	*	75	64	0·04
PENINSULA.	Corunna ...																*			
	Lisbon	30·18	66	NNW	5	b	30·12	·00	71	63	+ 3	N	4	b	*	b	*	77	63	—
	Azores (P. Delgada)	30·16	69	S	4	b	30·09	− ·02	70	68	+ 1	SSW	4	c	5	b	*	75	68	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 9·6 *hrs;*

WEATHER CHARTS

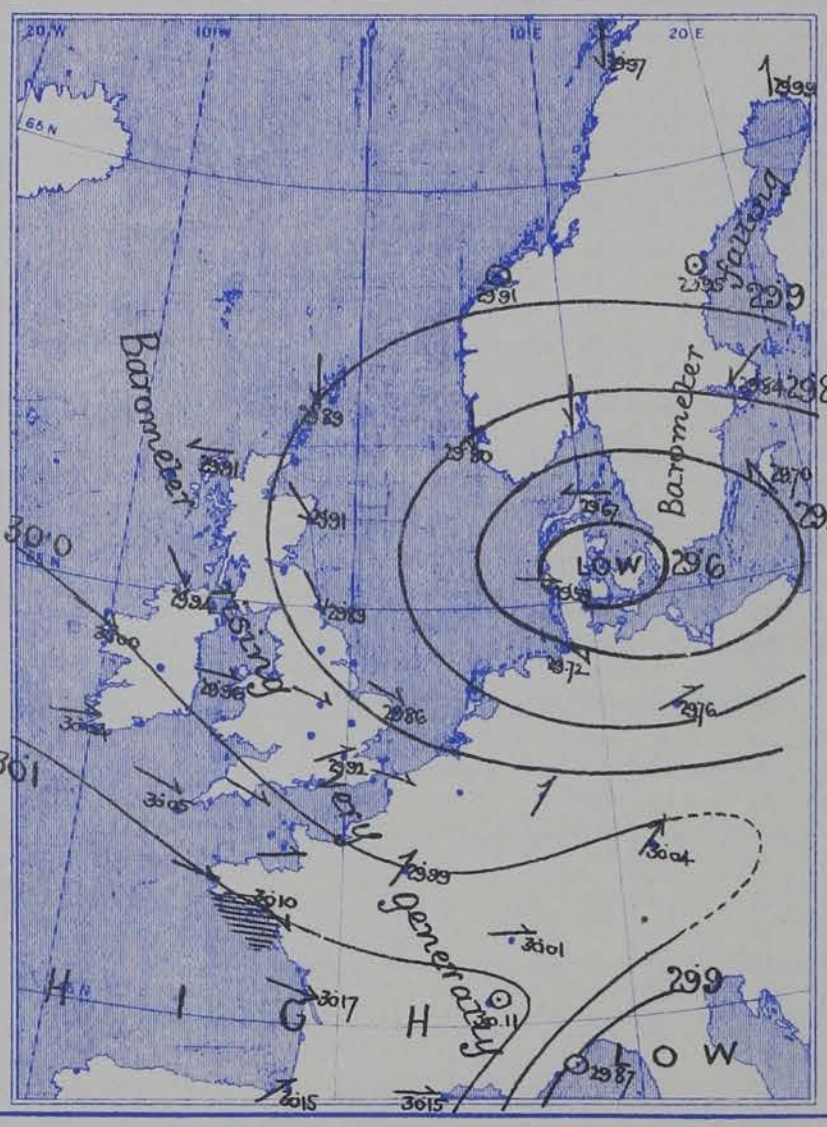
FOR Thursday, 22nd July, 1897.

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 ins. & more over the Southwestern parts of Continental Europe, & exceeding 29.9 ins. over the northern half of Scandinavia.
Lowest 29.6 ins. to 29.7 ins. in a depression lying over the Baltic and Denmark.
Gradients slight.
Barometer rising generally, most in the south and southwest.

TEMPERATURE

Highest 75° to 70° in the south of France, 71° at Lisbon; 73° at Wisby, 69° at Stockholm.
Lowest 51° at Lunburgh Head, 55° at Wick, 56° at Malin Head and Shields.
The maxima recorded over the inland parts of England yesterday ranged from 70° to 77°. At Berlin the maximum was 75°; at Paris 72° and at Nice 95°.

WIND

Moderate from NE. in the south of Scandinavia, light from NW. and W. over our islands, and from the W^rd over Germany and France.

WEATHER

Fine over Scandinavia and on the south coast of England, cloudy elsewhere, with slight rain at a few isolated stations. Thunder and lightning occurred yesterday over our southern, eastern and south-midland counties, with some very local, sharp showers. Newspapers report a severe thunderstorm in the northern suburbs of London. Nearly an inch of rain fell at Berlin. Bright Sunshine yesterday amounted to 8.2 hrs. at Stornoway, 7.2 hrs. at Scilly, 5.3 hrs. at Cambridge.

SEA

Slight in the Channel, smooth, or nearly so, elsewhere, except at Lorient.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The weather is now very quiet, and some clearance of the sky is probable in most places.

FORECASTS

For the 24 hours ending at NOON on 23rd JULY 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E.	NW^ly and N^ly breezes, light; fair as a whole.	6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	NW^ly breezes, light; fine.
3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	NW^ly airs; fair and clearer.	WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.80	69	62	WSW	2	c	1
Sumburgh Head	29.81	57	55	NW	2	bc	3
Stornoway	29.81	62	58	E	3	o	3
Aberdeen	29.82	57	55	N	2	o	3
Shields	29.73	58	57	N	3	o	3
Ardrossan	29.78	63	61	N	1	o	1
Malin Head ...	29.82	59	55	NNW	3	c	2
Belmullet	29.89	60	57	ENE	1	o	*
Holyhead	29.80	59	58	NW	3	of	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.88	65	62	WNW	4	cm	4
Scilly	29.84	65	60	WNW	5	c	3
Jersey	29.84	66	63	W	4	o	3
Hurst Castle ...	29.75	65	63	WSW	3	o	2
Dungeness ...	29.72	66	62	SW	4	c	3
North Foreland	29.74	66	62	NW	3	c	2
London (Westminster)	29.72	70	63	SW	1	og	
Yarmouth ...	29.71	65	60	NNE	3	b	3 *
Rochefort ...	29.96	72	71	WNW	6	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine over the Mediterranean and the greater part of southern Europe, as well as in the far north; cloudy or overcast elsewhere, and very unsettled over some part of England – mist and fog in several places, rain at Aberdeen, Brussels and Prague. Thunderstorms later over the southern, midland, and eastern counties of England – very severe on the north side of London – heavy rain at Berlin and considerable quantities in several other localities.

Temperature fallen irregularly over our Islands and over Russia. Morning readings highest 90° at Tunis, 86° at Algiers, 84° at Brindisi, 82° at Trieste, 79° at Leghorn, 76° at Nice; 74° at Memel, Neufahrwasser and at Riga; 76° at Moscow. Lowest 47° at Archangel, 55° at Sumburgh Head and Aberdeen, 54° at Shields. Rising later to between 70° and 77° over England, to 75° at Berlin, 73° at Paris, 86° at Perpignan and 95° at Nice.

Wind light generally – N' and NE' over northern Europe and Scotland, W' to SW' over the Bay of Biscay and France, S' over North Germany. A complex cyclonic circulation of light winds prevalent over England, the Netherlands, and the North Sea, and a moderate to fresh cyclonic circulation prevailing over the Mediterranean. Becoming more generally NW' over our Islands later.

Barometer highest 30·1 ins. and more to 29·9 ins. in two anticyclones, one over northern, the other over southwestern Europe. Lowest. Below 29·7 ins. in a large and complex, but shallow, depression, lying over England, north Germany, the Netherlands, and the southern half of the North Sea, and below 29·8 ins. in a very shallow system over the northern parts of the Mediterranean, Italy, and the Adriatic. Rising over our Islands all day.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Friday 23rd July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.89	57	Z	0	b	29.84	−.15	66	60	+3	Z	0	b	*	b	*	70	48	—
	Hernösand ...	29.89	60	Z	0	b	29.92	−.03	66	60	+2	NW	2	b	*	b	*	72	52	—
	Stockholm ...	29.82	66	NE	2	c	29.86	+.02	63	62	−6	NE	2	0	*	c	*	73	59	0.16
	Wisby	29.83	61	SSW	4	0	29.89	+.19	64	61	−9	WSW	4	c	*	0	*	79	59	—
	Karlstad ...	29.81	66	ENE	2	r	29.88	+.06	69	64	0	NE	2	0	*	Zlr	*	*	*	1.06
	Bodö	30.01	55	NW	1	b	30.06	+.09	53	50	−2	W	4	0	2	b	*	63	48	—
	Christiansund ...	29.91	63	N	3	b	29.94	+.03	59	56	−3	NE	3	b	1	b	*	68	57	—
	Skudesnaes ...	29.75	64	N	4	c	29.89	+.09	64	60	−3	Z	0	c	1	c	*	72	54	*
	Færder (Christiania Fjord)	29.74	67	E	3	0	29.89	+.10	67	65	+3	SW	1	m	1	0	*	70	63	0.39
	Skagen (The Scaw)	29.73	65	SSE	3	m	29.88	+.21	66	62	+3	SE	1	0	0	m	*	68	61	0.55
	Fanö	29.56	59	SW	7	0	29.80	+.01	60	60	−2	SE	5	r	*	0	*	63	59	0.32
BRITISH ISLANDS.	Sumburgh Head	29.90	55	NE	1	0	29.92	+.03	53	52	+2	WNW	1	0	1	c,0	*	57	50	—
	Stornoway ...	29.95	62	E	3	0	29.96	+.05	57	54	−2	SSE	3	0	3	c,0	6.1	65	52	—
	Wick	29.97	58	NE	2	0	30.00	+.07	55	54	0	N	2	ow	0	0	*	63	50	—
	Nairn	29.94	63	E	2	bc	29.97	+.07	61	60	0	Z	0	ow	0	bc	*	69	54	0.04
	Aberdeen ...	29.90	57	ESE	2	bc	30.01	+.10	60	57	+3	NW	1	0	1	bc	8.0	66	54	—
	Leith	29.92	64	Z	0	c	30.01	+.11	63	61	+6	WSW	3	b	*	c	*	71	53	—
	Shields	29.94	56	N	1	c	30.03	+.14	63	57	+7	WNW	3	bc	2	c	*	63	53	—
	Spurn Head ...	29.95	58	NNW	3	0	30.05	+.17	62	61	+2	WNW	4	b	3	ow	*	66	56	—
	York	29.95	67	W	2	c	30.05	+.17	63	57	+3	W	1	b	*	c	2.2	70	52	—
	Loughborough ...	29.97	70	W	4	c	30.10	+.19	64	58	+4	WNW	3	b	*	bc,c,bm	*	74	52	—
	Ardrossan ...	29.96	61	NW	3	cm	30.02	+.12	58	57	0	Z	0	cm	0	cm	*	64	49	—
	Malin Head ...	29.99	59	NW	2	c	29.98	−.01	63	61	+7	S	4	c	2	c	*	63	53	—
	Belmullet ...	30.01	63	SSW	1	0	29.90	−.10	62	62	+4	SSW	1	or	*	c,0	*	64	57	0.05
	Donaghadee ...	30.02	58	NNW	3	c	30.03	+.09	59	57	0	SSE	3	bc	1	c	*	62	49	—
	Liverpool (Bidston)	30.02	59	W	3	c	30.08	+.14	65	59	+6	W	1	b	3	c	*	65	56	—
	Holyhead ...	30.04	58	SW	2	c	30.06	+.10	61	60	+4	S	2	ogm	1	d.c	*	62	54	—
	Parsonstown ...	30.02	63	SW	1	0	30.00	.00	67	64	+9	W	2	o	*	0	0.6	69	57	—
	Valencia ...	30.02	63	SSE	3	ow	29.97	−.07	63	62	+3	S	5	og	4	c,ow	1.7	67	59	0.07
	Roche's Point ..	30.05	64	SW	3	c	30.06	+.02	63	62	+3	SSW	3	o	3	c,m	*	66	60	0.05
	Pembroke (St. Ann's Hd.)	30.07	60	WNW	2	0	30.15	+.16	61	61	+2	W	3	og	3	c,0	6.1	63	54	—
	Scilly	30.14	67	SW	3	bc	30.14	+.09	65	64	+3	SSW	3	of	2	c,bc	8.8	68	58	0.03
	Prawle Point ...	30.09	62	WSW	2	c	30.17	+.16	61	61	−1	WSW	2	of	2	c,cm	*	70	51	0.01
	Jersey (St. Aubin's)	30.13	65	W	5	bm	30.22	+.19	64	62	0	WSW	4	ow	3	bm	*	68	57	—
	Hurst Castle ...	30.04	71	WNW	4	b	30.16	+.21	65	61	+2	WSW	1	c	1	ow,b	*	72	59	—
	Dungeness ...	29.97	66	WSW	4	c	30.12	+.23	64	58	−1	WNW	4	c	3	c	*	71	53	—
	North Foreland	29.97	71	W	2	c	30.12	+.22	63	57	0	W	4	bc	3	c	*	74	57	—
	London (Brixton) ...	29.97	71	NW	2	cq	30.13	+.21	62	57	+2	SW	2	c	*	bc,p,b	2.8	74	51	—
	Oxford	30.03	63	WNW	2	b	30.13	+.20	63	58	+1	WSW	3	b	*	b	*	73	54	—
	Cambridge ...	29.96	70	NNW	1	cm	30.10	+.19	60	56	−1	WNW	3	b	*	cm	1.8	73	50	—
	Yarmouth ...	29.92	63	N	2	b	30.03	+.17	62	58	+1	WNW	4	b	2	b	*	66	50	—
GERMANY & HOLLAND.	Cuxhaven ...	29.79	61	W	4	0	29.69	−.03	59	59	−2	W	5	r	*	0,r	*	64	57	1.14
	Berlin	29.88	65	SW	1	c	29.96	+.20	63	59	−1	WSW	2	c	*	c	*	72	59	0.16
	Wiesbaden ...	*	*	*	*	*	30.09	+.18	63	61	−1	S	1	0	*	*	*	72	59	0.08
	Munich	30.13	61	SW	4	c	30.22	+.18	60	57	−1	W	4	0	*	c	*	70	55	0.08
	The Helder ...	29.88	62	W	3	c	29.94	+.14	59	56	−2	WNW	5	0	3	c	*	64	59	—
BELGIUM.	Brussels ...	*	*	*	*	*	30.10		60	59		WSW	2	0	*	0	*	73	59	—
	Cape Gris Nez ...	29.96	62	W	4	0	30.08	+.21	58	55	−4	NW	4	b	4	0	*	64	57	—
	Paris	30.07	71	WNW	3	bc	30.20	+.21	61	59	+1	SW	1	c	*	bc	*	73	55	—
	Brest	30.17	68	WSW	1	b	30.26	+.08	61	59	0	S	2	b	1	b	*	70	57	—
	Lorient	30.19	66	WNW	5	c	30.27	+.17	63	61	+1	NE	2	bc	2	c	*	70	57	—
FRANCE &	Rochefort ...	30.19	62	NW	5	c	30.28	+.11	62	61	−4	ESE	3	b	*	c	*	72	59	—
	Belfort	30.06	60	WSW	3	0	30.20	+.19	59	58	0	W	3	m	*	0	*	63	56	0.71
	Lyons	30.14	66	NNW	1	r	30.24	+.13	64	59	+2	N	1	b	*	r	*	75	57	0.04
	Nice	29.85	78	SW	2	b	30.02	+.15	75	61	0	Z	0	b	0	b	*	84	63	—
	Perpignan ...	30.13	80	NW	3	b	30.23	+.08	72	63	+1	SW	2	b	*	b	*	86	61	—
	Biarritz ...	30.17	72	N	3	b	30.15	.00	63	61	−5	E	3	b	2	b	*	77	59	
PENINSULA.	Corunna ...																*			
	Lisbon	30.02	75	NNW	4	b	30.02	−.10	77	65	+6	N	1	b	*	b	*	90	68	—
	Azores (P. Delgada)	30.12	68	W	3	b	30.14	+.05	69	64	−1	W	4	bc	2	b	*	73	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 4.2 hrs;

WEATHER CHARTS

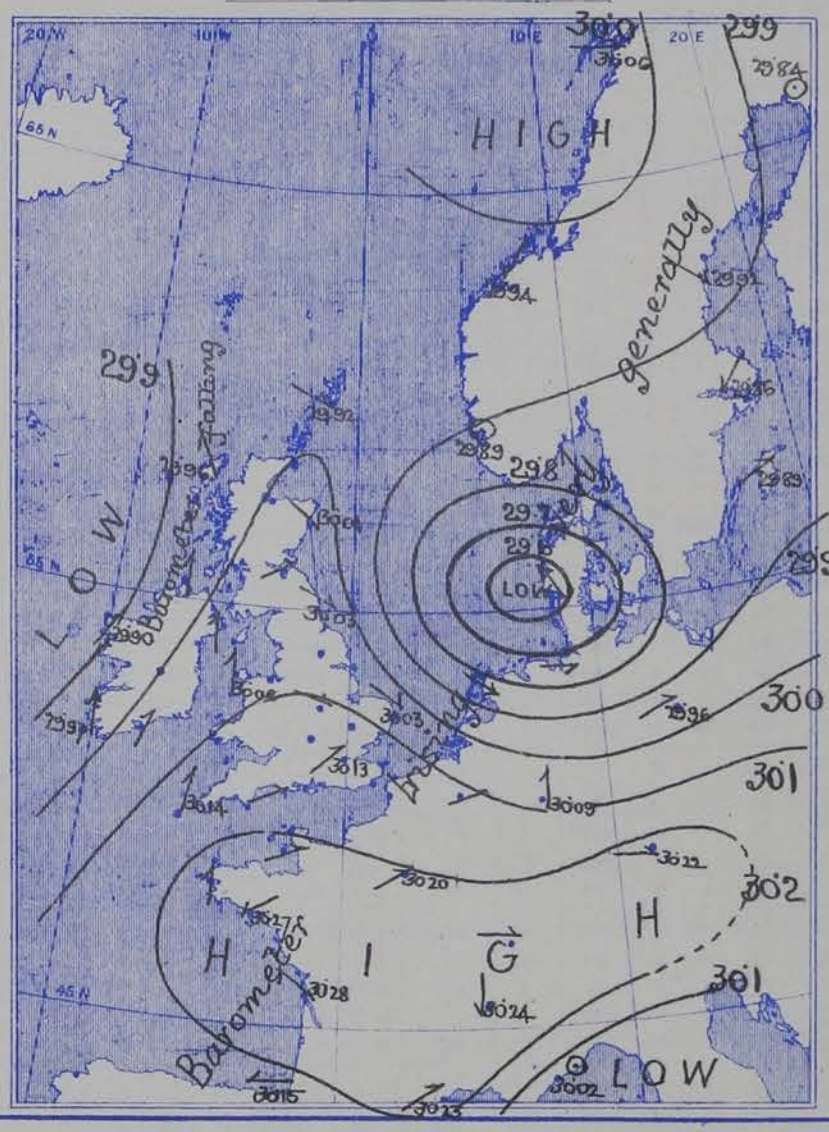
FOR Friday, 23rd July, 1897.

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

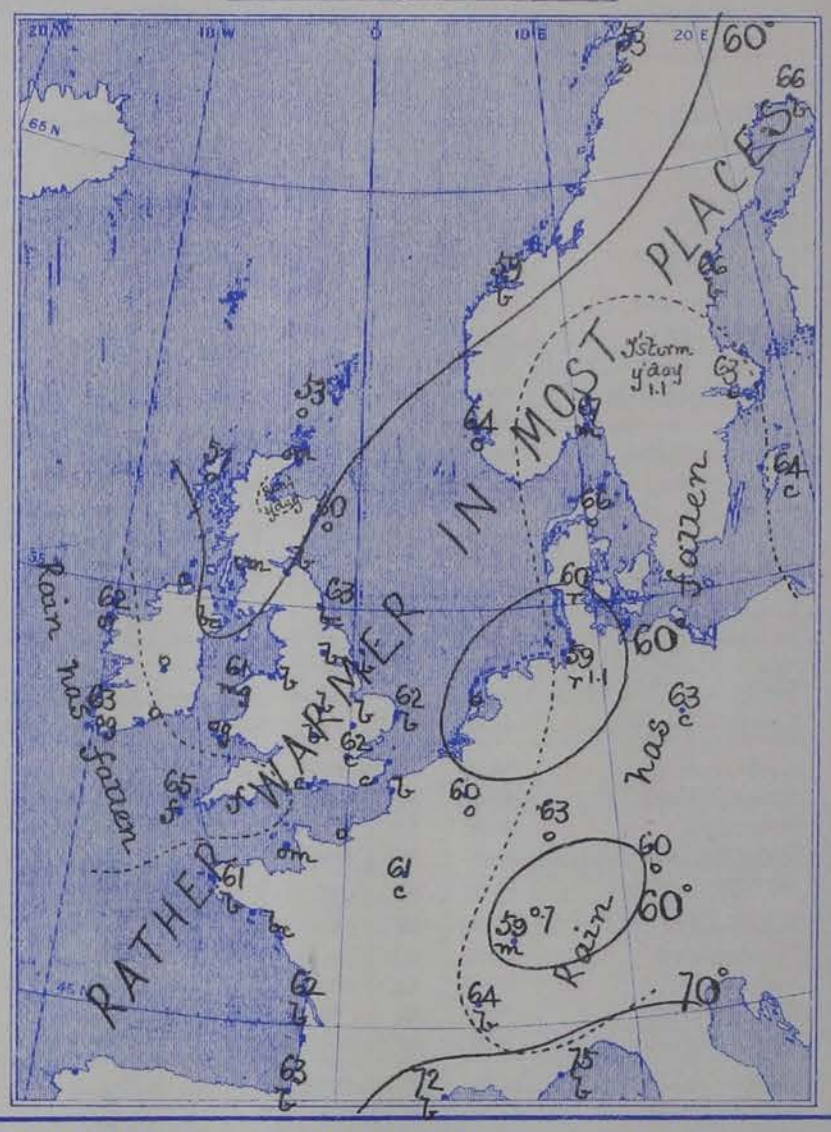
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those withow rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 56	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·2 ins. and more to 30·1 ins. in an anticyclone lying over France and the south of England, and exceeding 30·0 ins. in a ridge stretching northward over the Irish Sea and the north of England and east of Scotland.
Lowest:—(1) Below 29·6 ins. in a depression over the eastern side of the North Sea (near Sylt) and (2) below 29·9 ins. off our extreme northwestern coasts.
Gradients slight over our islands, steep over the southern half of the North Sea.
Barometer rising except on our northwestern coasts, and even there the fall is slight.

TEMPERATURE

Highest (1) 75° to 72° on the south coast of France, 65° at Scilly & Hurst Castle; (2) 69° at Karlstad, 66° at the Skaw, Hernösand and Haparanda.
Lowest 53° at Bodo and Sumburgh Head, 55° at Wick, 58° at Ardrossan and 59° at Donaghadee.
It rose during yesterday to between 74° and 70° in many parts of Great Britain.

WIND

(1) Moderate from the Southward on our most western coasts;
(2) light, and anticyclonic, over England and France;
(3) fresh, and cyclonic, over Holland, Denmark and the greater part of the North Sea.
It freshened somewhat from WNW. over our southeastern counties last evening.

WEATHER

Fine over England and France; dull in the west and north of our islands, as well as over Denmark and the south of Sweden; very rainy at Cuxhaven and Sylt.
Heavy rain has fallen on the eastern shores of the North Sea and in the east of France; slight showers at our own western stations. Bright sunshine recorded during yesterday was 8·8 hrs. at Scilly & 8·0 hrs. at Aberdeen, but only 2·8 hrs. in London, and 1·8 hrs. at Cambridge.

SEA

Moderate at Valencia Island, slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The low pressure area in the northwest is moving northeastwards, and is not likely to affect our weather much; that in the east has become deeper, but is also not likely to have much effect on the weather over our islands.

FORECASTS

For the 24 hours ending at NOON on 24th JULY 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S½E and SW½S winds; some showers.	6 SCOTLAND WEST	Same as No. 0.
1 SCOTLAND EAST	W½S and SW½S winds, light; fine.	7 ENGLAND N.W.	SW½S and S½E breezes; slight showers.
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	SW½S breezes; fine in the east, showery in the west.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.79	72	63	NNW	4	c	1
Sumburgh Head	29.90	55	53	WNW	2	c	1
Stornoway	29.94	65	61	E	3	c	3
Aberdeen	29.93	61	58	E	2	bc	2
Shields	29.93	58	56	N	2	c	3
Ardrossan	29.94	63	62	NW	3	cm	2
Malin Head ...	30.00	61	56	NW	2	c	1
Belmullet	30.04	62	58	W	1	c	*
Holyhead	30.03	60	58	WSW	2	c	1
Valencia	30.06	66	60	S	2	c	3
Scilly	30.11	66	61	W	3	c	3
Jersey	30.12	68	60	WNW	5	bm	3
Hurst Castle ...	30.02	67	64	WSW	4	ow	2
Dungeness ...	29.94	68	64	WSW	4	cp	3
North Foreland	29.96	71	65	NW	2	c	2
London (Westminster)	29.96	72	63	NW	2	c	*
Yarmouth ...	29.90	65	60	NNE	0	b	3
Rochefort ...	30.17	70	68	NW	3	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine and bright (1) over the Mediterranean and the extreme south of Europe generally; (2) over the greater part of Scandinavia and some parts of Finland, cloudy or overcast elsewhere, and unsettled with mist in many parts of our Islands, rain at Shields and at some stations over Central Europe. Rain later in many parts of Central and northern Europe — heavy at Belfast, Cuxhaven, and Karlstad, slight showers over Ireland; lightning at Karlstad.

Temperature rises in Scotland, falls in some parts of Russia and Central Europe, as well as over Algeria. Morning readings highest (1) 84° at Sfax, 83° at Brindisi, 78° at Rome and Vienna, 77° at Trieste, 76° at Lemberg; (2) 76° at Riga, 73° at Westy, 68° at Stockholm and Karlstad. Lowest 50° at Archangel, 51° at Sumburgh Head, 55° at Bodö and Wick, 56° at Malin Head and Shields. Rising later to between 70° and 74° over England, to 72° at Berlin, 73° at Paris, to 84° at Nice, and to 86° at Lampedusa.

Wind light and variable over northern Europe, light N¹ to NW¹ over our Islands, W¹ to SW¹ over Central Europe, and S¹ over the Baltic Provinces, but NE¹ over the southern part of Sweden.

Barometer highest 30·1 in: and more to 30·0 in: over the whole of southeastern and also over northern Europe, and exceeding 29·9 in: in a small secondary anticyclone over the east of Scotland. Lowest 29·6 in: to 29·7 in: in a complex depression lying over Denmark and the Baltic, and below 29·9 in: both over southeastern Europe and in a small depression near Nice. Depression over Denmark growing deeper later, and barometer beginning to fall in the west of Ireland.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on Saturday 24th JULY, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.88	60	L	0	b	30.03	+ .19	56	50	− 10	NE	6	b	*	b	*	75	57	—
	Hernösand ...	29.88	65	L	0	b	29.96	+ .04	69	59	+ 3	NE	2	b	*	b	*	79	52	—
	Stockholm ...	29.90	66	L	0	0	29.92	+ .06	68	66	+ 5	L	0	0	*	0	*	70	61	0.04
	Wisby	29.93	63	S	4	b	29.92	+ .03	63	61	− 1	WSW	4	b	*	b	*	70	55	—
	Karlstad ...	29.92	66	NW	2	0	29.96	+ .08	63	62	− 6	L	0	0	*	r.0.f	*	*	*	0.24
	Bodö	30.10	51	W	2	bc	30.12	+ .06	53	51	0	N	2	b	1	bc	*	54	48	—
	Christiansund ...	29.98	61	ENE	4	b	30.05	+ .11	56	54	− 3	ENE	1	m	2	b	*	66	54	0.20
	Skudesnaes ...	30.02	61	NW	2	c	30.08	+ .19	60	57	− 4	NW	4	0	1	c	*	68	59	*
	Færder (Christiania Fjord)	29.90	66	WSW	2	m	29.97	+ .08	65	65	− 2	L	0	f	0	m	*	68	64	0.04
	Skagen (The Scaw)	29.96	63	N	1	m	29.99	+ .11	65	62	− 1	W	1	b	0	m	*	73	59	—
	Fanö	29.95	63	L	0	bc	30.06	+ .46	59	58	− 1	NW	2	0	*	bc	*	72	59	0.04
BRITISH ISLANDS.	Sumburgh Head	29.96	54	WNW	2	0	29.97	+ .05	55	55	+ 2	SE	1	f	2	c,0	*	59	49	—
	Stornoway ...	29.90	60	SSE	3	r	29.88	− .08	60	60	+ 3	S	3	0	4	0,r	3.1	63	55	0.11
	Wick	29.99	52	SE	1	0	29.97	− .03	63	60	+ 8	S	2	bc	2	0.f,p	*	63	52	0.01
	Nairn	29.93	61	L	0	c	29.92	− .05	68	66	+ 7	L	0	c	0	c	*	72	54	0.05
	Aberdeen ...	30.02	55	SE	2	cm	29.99	− .02	69	63	+ 9	SW	3	bc	1	0.cm	1.5	69	55	—
	Leith	30.00	70	W	1	0	30.01	.00	67	65	+ 4	SSW	2	0	*	0	*	76	60	—
	Shields	30.05	63	S	2	0	30.06	+ .03	70	64	+ 7	SW	3	c	2	bc,0	*	74	59	—
	Spurn Head ...	30.08	60	SE	3	b	30.10	+ .05	69	67	+ 7	S	1	b	2	b	*	71	58	—
	York	30.09	77	W	2	b	30.11	+ .06	69	64	+ 6	S	2	bc	*	b	13.0	79	59	—
	Loughborough ...	30.11	74	WNW	2	c	30.13	+ .03	66	63	+ 2	SE	1	cmw	*	b.bm.f	*	79	54	—
	Ardrossan ...	29.98	63	S	1	cm	29.99	− .03	62	62	+ 4	SSE	2	cm	1	cm,fl	*	69	56	0.16
	Malin Head ...	29.90	65	SSW	4	cp	29.90	− .03	60	60	− 3	S	3	r	0	cp	*	70	58	0.31
	Belmullet ...	29.91	64	SW	4	0	29.85	− .05	62	61	0	SSW	1	c	*	0	*	65	59	0.15
	Donaghadee ...	30.01	62	SSE	4	bc	30.01	− .02	60	59	+ 1	SW	4	c	2	bc,fl	*	68	57	—
	Liverpool (Bidston)	30.11	71	SW	2	b	30.06	− .02	67	63	+ 2	SE	2	0	2	b	*	75	60	—
	Holyhead ...	30.10	63	SSW	4	c	30.03	− .03	65	64	+ 4	S	3	0	2	f.c	*	67	58	—
	Parsonstown ...	30.09	67	SE	1	r	29.90	− .10	61	60	− 6	SE	1	or	*	c,rm	1.7	72	60	0.16
	Valencia ...	29.95	63	SSE	3	omg	29.86	− .11	62	61	− 1	S	2	om	3	gp,mg,r	0.0	65	60	1.06
	Roche's Point ..	30.05	64	SSW	4	c	29.93	− .13	62	62	− 1	SSW	5	r	4	c,r	*	66	60	0.12
	Pembroke (St. Ann's Hd.)	30.12	63	SSW	3	bc	30.02	− .13	62	61	+ 1	SSE	4	bc	3	bc	1.3	64	59	—
	Scilly	30.13	69	S	3	bc	30.00	− .14	68	64	+ 3	S	4	c	3	bc	10.1	73	61	—
	Prawle Point ...	30.17	65	SSW	3	bc	30.09	− .08	62	60	+ 1	SE	3	bc	2	bc	*	66	59	—
	Jersey (St. Aubin's)	30.18	71	SE	2	b	30.12	− .10	71	65	+ 7	ESE	3	bm	3	b	*	72	61	—
	Hurst Castle ...	30.17	67	SW	2	c	30.13	− .03	68	63	+ 3	SE	3	b	2	om.c,f	*	69	59	—
	Dungeness ...	30.11	65	SW	5	b	30.15	+ .03	61	60	− 3	WSW	1	f	1	b	*	71	60	—
	North Foreland	30.13	69	S	3	b	30.16	+ .04	69	66	+ 6	S	2	b	2	b	*	74	60	—
	London (Brixton) ...	30.12	74	NW	1	bc	30.15	+ .02	69	66	+ 7	S	1	b	*	bo,b,f	9.4	78	59	—
	Oxford	30.13	68	WSW	1	bc	30.13	.00	66	64	+ 3	SSE	1	0	*	bc	*	73	57	—
	Cambridge ...	30.11	77	W	2	b	30.14	+ .04	69	66	+ 9	WSW	1	om	*	b	14.0	80	56	—
	Yarmouth ...	30.09	66	SSE	2	b	30.12	+ .09	64	61	+ 2	L	0	b	3	b	*	70	58	—
GERMANY & HOLLAND.	Cuxhaven ...	29.77	61	NW	5	0	30.07	+ .38	62	61	+ 3	N	3	0	*	0	*	64	57	0.12
	Berlin	29.91	63	WSW	5	0	29.93	− .03	62	59	− 1	WNW	5	0	*	0	*	70	59	0.24
	Wiesbaden ...	*	*	*	*	*	30.20	+ .11	63	59	0	SW	2	0	*	*	*	75	61	—
	Munich... ..	30.23	59	W	3	c	30.27	+ .05	62	57	+ 2	W	4	b	*	c	*	66	57	0.16
	The Helder ...	30.08	59	NW	3	0	30.13	+ .19	59	57	0	N	1	c	1	0	*	61	57	—
BELGIUM.	Brussels ...	*	*	*	*	*	30.19	+ .09	63	61	+ 3	W	2	b	*	b	*	71	54	—
	Cape Gris Nez...	30.12	62	WSW	3	0	30.13	+ .05	62	62	+ 4	L	0	f	1	0	*	66	57	—
	Paris	30.20	70	N	1	b	30.21	+ .01	63	59	+ 2	L	0	b	*	b	*	73	61	—
	Brest	30.15	68	SSW	1	b	30.04	− .12	65	62	+ 4	SE	2	b	2	b	*	72	55	—
	Lorient... ...	30.14	73	L	0	b	30.08	− .19	66	64	+ 3	SE	3	b	2	b	*	77	57	—
FRANCE &	Rochefort ...	30.17	81	SE	2	b	30.13	− .15	65	64	+ 3	E	3	b	*	b	*	91	62	—
	Belfort	30.20	68	W	3	b	30.23	+ .03	61	58	+ 2	NE	1	m	*	b	*	72	51	—
	Lyons	30.17	74	NNE	1	b	?	?	66	61	+ 2	? N	1	b	*	b	*	78	59	—
	Nice	30.06	76	SW	3	b	30.11	+ .09	75	61	0	L	0	m	1	b	*	84	66	—
	Perpignan ...	30.10	81	SE	2	b	30.14	− .09	73	68	+ 1	W	1	0	*	b	*	88	63	—
	Biarritz ...	30.00	83	E	5	b	29.98	− .17	73	69	+ 10	ESE	4	c	1	b	*	88	63	—
PENINSULA.	Corunna ...																*			
	Lisbon	30.04	75	NNE	4	b	30.15	+ .13	71	64	− 6	N	4	bc	*	b	*	91	66	—
	Azores (P. Delgada)	30.24	68	W	2	b	30.29	+ .15	69	65	0	W	1	c	1	b	*	73	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

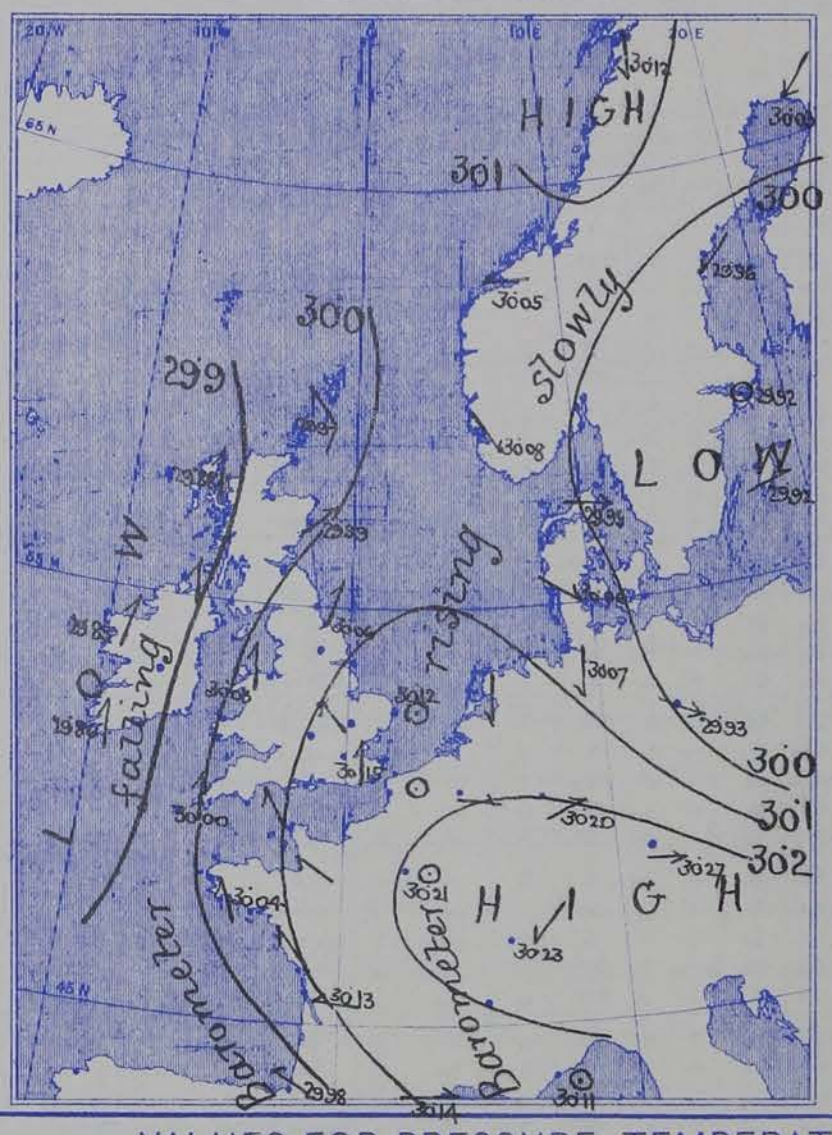
Bright Sunshine yesterday Southport 9.8 *hrs;*

WEATHER CHARTS

FOR Saturday, 24th July, 1897.

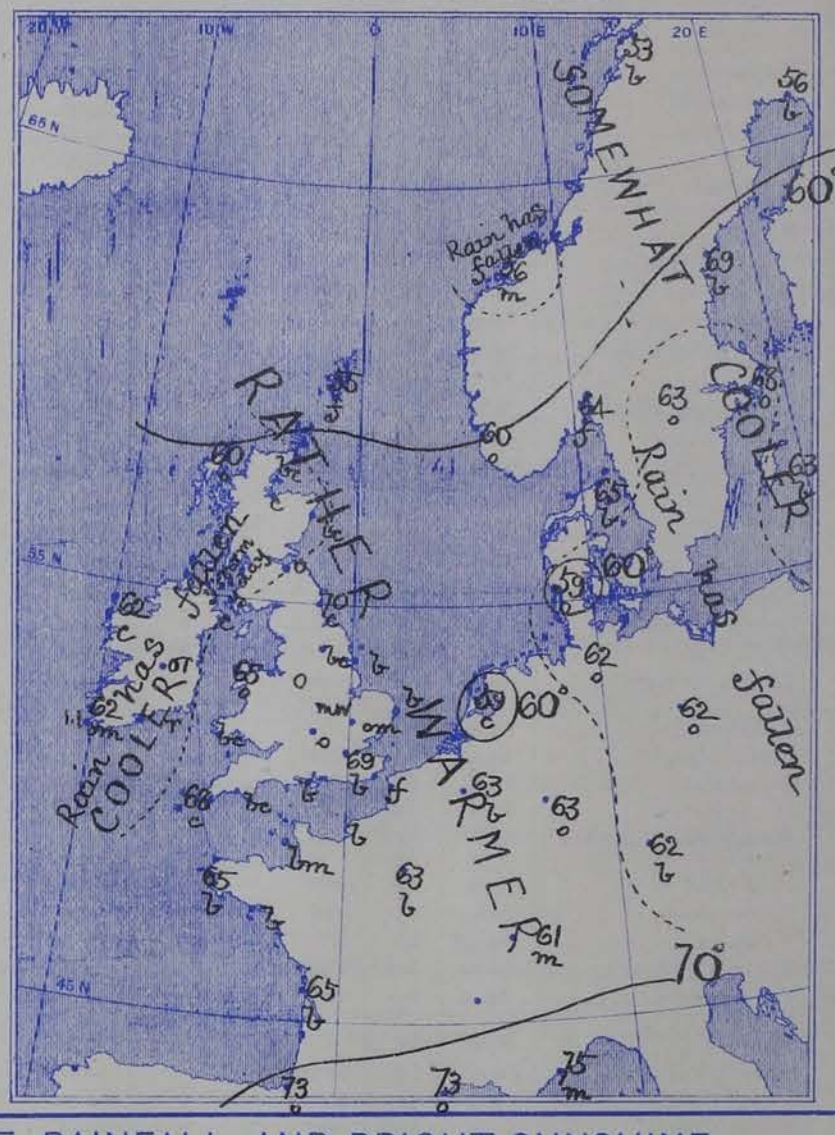
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those withou rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 73	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest (1) 30.2 in. & more to 30.1 in. over France, Holland & the eastern half of England; (2) 30.1 in. & more over the northwest of Norway.
Lowest (1) Below 30.0 in. over Sweden & the Baltic; (2) below 29.9 in. over the west of Ireland & apparently still lower over the Atlantic.
Gradients moderate in the west, but increasing; slight in the east.
Barometer falling decidedly in the west and southwest, and the fall spreading eastwards and northwards.

TEMPERATURE

Highest 75° to 73° on the south coast of France, 70° at Shields, 69° in London, at the North Foreland, York, & Nerivaand, 68° at Stockholm.
Lowest 53° at Bodö, 55° at Lumburgh Head, 60° at Malin Head.
The highest of the maxima recorded yesterday were 80° at Cambridge, 79° at Loughborough & York, 78° in London, 73° at Paris, 84° at Nice.

WIND

Moderate from SE. in the west of France, freshening from the Southward over Ireland, light Southerly over Great Britain, but Northerly on the eastern shores of the North Sea, nearly calm over Central France.

WEATHER

Very fine and bright over France and the southeast and east of England, dull and showery in the far west, with much rain at Valencia Island; showery over Germany.
More than an inch of rain has fallen at Valencia during the night. Bright sunshine recorded yesterday amounted to 13 hrs. at York, 14 hrs. at Cambridge, 10 hrs. at Scilly & Southport and to 9.4 hrs. in London.

SEA

Moderate to slight at the western stations, smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There appear to be disturbances approaching our western and southwestern coasts, which seem likely to bring showery thundery weather to England shortly.

FORECASTS

For the 24 hours ending at NOON on 25th JULY 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	S'ly breezes, moderate to fresh; some showers.	6 SCOTLAND WEST	Same as No. 0.
1 SCOTLAND EAST	S'ly breezes, backing SE. later; fine, very warm.	7 ENGLAND N.W.	S'ly and SE'ly winds, very fresh; rain in places.
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST	SE'ly breezes, freshening; very warm, becoming less settled.	9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.98	68	62	WNW	6	b	2
Sumburgh Head	29.94	58	56	WNW	2	c	2
Stornoway ...	29.93	63	60	SSE	3	o	4
Aberdeen ...	30.03	59	57	SE	2	o	1
Shields	30.04	72	63	W	3	bc	2
Ardrossan	30.03	64	64	S	1	c	0
Malin Head ...	29.89	69	65	S	4	c	2
Belmullet	29.90	64	62	SW	3	o	*
Holyhead	30.09	66	64	SSW	4	c	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia ...	29.97	65	64	S	4	ogp	5
Scilly ...	30.14	73	64	S	3	bc	2
Jersey	30.23	71	64	SW	3	c	3
Hurst Castle ...	30.18	68	64	SW	3	om	2
Dungeness ...	30.13	67	62	SW	5	b	4
North Foreland	30.15	72	61	W	3	bc	2
London (Westminster)	30.13	78	66	NW	2	c	*
Yarmouth ...	30.07	69	62	NNE	3	b	3
Rochefort ...	30.24	86	72	NW	2	v	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine and bright over the whole of southeastern, southern, and southwestern Europe, France, England, and the northern parts of Scandinavia, as well as over Central Russia, cloudy or overcast elsewhere, with rain in the west of Ireland, as well as at Cuxhaven and Fanö. Heavy rain falling at Valencia later, and smaller quantities at most of the Irish, Scotch and Scandinavian stations, as well as over Germany, but none over England, France or Spain. Thunder and lightning occurring at Ardrossan and Donaghadee.

Temperature rising over England and France, falling a little over Italy and southeastern Europe. Morning readings highest 82° at Constantinople, 80° at Barcelona, 79° at Lisbon and Brindisi 78° at Algiers; 69° at Karlstad, 67° at Varnembum. Lowest 53° at Boulogne and Sumburgh Head, 55° at Archangel, 58° at Ardrossan, 59° at Donaghadee. Rising later to between 75° and 80° over the greater part of England, and touching 70° at Berlin, 73° at Paris, 84° at Nice, 91° at Rochefort and Lisbon.

Wind (1) light and anticyclonic over Spain, France and England; (2) S³ and moderate over Ireland and the west of Scotland; (3) Cyclonic and very fresh over the eastern shores of the North Sea. The S³ wind in the west spreading eastwards later, and the cyclonic circulation in the east breaking up.

Barometer highest (1) 30.2 in. and more to 30.1 in. in an anticyclone of irregular outline covering France, Spain, and the south of England, and exceeding 30.0 in. in a ridge stretching northwards to Aberdeen; (2) Exceeding 30.0 in. in another system off the northwest coast of Norway. Lowest 29.6 in. and less in a depression over the North Sea near Fanö, and below 29.9 in. off the northwestern coast of our Islands. Depression in east passing away to the Baltic later, but a fresh fall of the barometer commencing in the southwest of Ireland.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on SUNDAY JULY 25TH 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30.08	57	N	2	b	30.12	+.09	59	52	+3	S	2	b	*	b	*	72	50	—
	Hernösand ...	29.67	60	NE	2	b	30.12	+.16	61	57	-08	NE	2	b	*	b	*	73	54	—
	Stockholm ...	29.98	68	2	0	b	30.22	+.10	72	61	+4	2	0	bc	*	b	*	77	63	—
	Wisby	29.99	64	NNW	4	c	30.01	+.09	64	62	+1	ENE	4	c	*	c	*	68	55	—
	Karlstad ...	29.97	71	E	2	c	30.01	+.05	72	67	+9	E	2	c	*	c	*	*	*	—
	Bodö	30.08	58	NE	2	b	29.96	-.16	56	52	+3	W	2	bc	1	b	*	61	50	—
	Christiansund ...	30.06	55	2	0	f	29.95	-.10	59	56	+3	ENE	1	b	1	f	*	59	55	0.08
	Skudesnaes ...	30.04	63	NW	2	b	29.92	-.16	62	59	+2	S	4	c	3	bc.b	*	66	57	*
	Færder (Christiania Fjord)	29.98	69	WSW	2	b	30.00	+.03	65	63	0	SSW	2	m	2	b	*	69	57	—
	Skagen (The Scaw)	30.01	68	2	0	b	30.02	+.03	61	60	-4	WNW	1	f	0	b	*	62	61	—
	Fanö	30.08	58	WNW	2	0	30.01	-.05	60	58	+1	S	2	fc	*	0	*	63	57	—
	Sumburgh Head	29.88	59	SE	2	c	29.65	+.32	57	57	+2	SE	3	+	4	c	*	59	50	0.78
	Stornoway ...	29.80	60	S	3	0	29.50	-.38	57	56	-3	SW	4	c	5	p.or.o	0.1	61	54	0.25
	Wick	29.89	63	2	0	0	29.55	-.40	60	59	-3	S	4	c	2	o.+	*	73	59	0.25
	Nairn	29.83	68	S	2	c	29.53	-.39	65	63	-3	W	1	c	1	c	*	75	58	0.02
	Aberdeen ...	29.91	61	S	2	og	29.60	-.39	60	57	-9	S	4	cq	1	bq.og.tlr	5.6	71	57	0.74
	Leith	29.86	67	2	0	0	29.64	-.37	62	60	-5	SSW	2	c	*	o.tlp	*	74	58	0.24
	Shields	29.91	67	SE	3	c	29.69	-.37	67	60	-3	SW	3	c	2	c.+	*	74	58	0.02
	Spurn Head ...	29.94	62	ESE	4	bc	29.79	-.31	67	63	-2	WSW	4	bv	3	bc.p	*	72	60	0.09
	York	29.94	78	S	1	c	29.74	-.37	65	60	-4	S	2	b	*	c		80	56	0.11
	Loughborough ...	29.94	79	S	4	b	29.84	-.29	64	58	-2	SW	3	bv	*	c.bc.b	*	81	60	—
BRITISH ISLANDS.	Ardrossan ...	29.79	63	SSE	1	bc	29.63	-.36	57	57	-5	S	5	b	4	o.bc	*	64	56	0.02
	Malin Head ...	29.73	62	S	4	0	29.60	-.30	60	58	0	SSW	4	bc	2	o.o	*	63	54	0.52
	Belmullet ...	29.70	64	SSW	4	0	29.65	-.20	59	57	-3	WSW	1	c	*	c.o	*	69	55	—
	Donaghadee ...	29.82	61	SSW	5	c	29.69	-.12	62	59	+2	WSW	3	bc	2	c	*	63	54	0.22
	Liverpool (Bidston)	29.87	74	SSE	2	c	29.77	-.29	64	56	-3	SSW	3	b	3	cp	*	79	56	—
	Holyhead ...	29.88	63	SSW	3	cp	29.76	-.27	59	57	-6	SW	3	cmp	2	om.cp	*	69	55	0.05
	Parsonstown ...	29.74	66	SW	1	bc	29.70	-.20	59	55	-2	SW	2	cp	*	or.bc.p	?	69	51	0.26
	Valencia ...	29.76	64	SSW	5	c	29.73	-.13	60	57	-2	SW	5	op	5	og.ch	2.9	65	52	0.11
	Roche's Point ..	29.79	62	SW	5	c	29.78	-.15	61	58	-1	WSW	5	c	4	pxtlr	*	65	54	0.55
	Pembroke (St. Ann's Hd.)	29.93	63	SW	5	c	29.81	-.21	58	56	-4	W	6	bcqp	4	c	2.7	64	56	0.18
	Scilly	29.96	68	SSW	4	c	29.91	-.09	63	59	-5	WSW	6	bc	4	c	9.8	74	58	0.14
	Prawle Point ...	29.99	65	SSW	2	bc	29.95	-.14	63	60	+1	SSW	5	cpw	4	bc	*	68	58	0.01
	Jersey (St. Aubin's)	29.99	77	SE	1	b	30.04	-.08	65	62	-6	WSW	4	bc	3	b.p	*	79	61	0.02
	Hurst Castle ...	30.00	71	SE	1	b	29.95	-.18	66	62	-2	WSW	4	c	2	b	*	73	62	0.01
	Dungeness ...	30.03	68	ESE	1	b	29.90	-.25	66	62	+5	WSW	4	bc	3	b	*	72	60	—
	North Foreland	30.03	68	S	2	b	29.90	-.26	70	63	+1	W	4	c	3	b	*	78	63	—
	London (Brixton) ...	30.04	76	SSW	2	bv	29.90	-.25	67	60	-2	WSW	3	bc	*	b.bv	10.4	83	59	—
	Oxford	29.96	70	S	2	b	29.88	-.25	64	59	-2	WSW	3	b	*	b	*	78	59	—
	Cambridge ...	29.97	80	S	3	b	29.85	-.29	68	62	-1	SW	4	c	*	b	12.8	85	60	0.01
	Yarmouth ...	30.02	68	SSE	2	b	29.82	-.30	66	63	+2	W	3	bc	2	b	*	70	62	0.01
GERMANY & HOLLAND.	Cuxhaven ...	30.08	59	W	3	0	30.03	-.04	57	57	-5	S	1	m	*	0	*	64	55	0.52
	Berlin	30.04	66	NW	2	bc	30.08	+.15	64	60	+2	WNW	2	o	*	bc	*	70	57	0.08
	Wiesbaden ...	*	*	*	*	*	30.08	-.12	64	61	+1	NW	1	b	*	*	*	77	57	—
	Munich... ..	30.23	62	SW	1	b	30.19	-.08	65	61	+3	2	0	b	*	b	*	72	54	—
	The Helder ...	30.08	68	2	0	b	29.88	-.25	69	65	+10	SSE	2	bc	1	b	*	70	59	—
BELGIUM.	Brussels ...	*	*	*	*	*	29.93	-.26	71	63	+8	SSE	4	bc	*	b	*	80	61	—
	Cape Gris Nez...	30.02	71	2	0	m	29.91	-.22	63	61	+1	WSW	4	o	4	m	*	72	57	—
	Paris	30.07	81	E	2	b	29.99	-.22	68	64	+5	SSE	1	c	*	b	*	?	62	0.08
	Brest	30.06	70	WSW	1	b	30.04	0.0	62	60	-3	WSW	3	b	2	b	*	75	57	—
	Lorient... ...	30.04	72	W	4	m	30.09	+.01	65	63	-1	W	4	bc	4	m	*	79	61	—
FRANCE &	Rochefort ...	30.08	85	NW	2	b	30.19	+.06	69	68	+4	WNW	4	c	*	bc.b	*	93	68	—
	Belfort	30.08	72	E	1	b	30.04	-.19	66	62	+5	NNE	1	b	*	b	*	78	55	—
	Lyons	30.07	80	N	1	b	30.05	?	69	64	+3	NW	1	m	*	b	*	84	61	—
	Nice	30.03	72	SSE	2	b	30.05	-.06	70	64	-5	2	0	b	1	b	*	86	63	—
	Perpignan ...	30.04	79	SE	1	b	30.09	-.05	76	67	+3	NW	4	b	*	b	*	85	67	—
	Biarritz ...	30.08	70	W	5	0	30.18	+.20	70	66	-3	WNW	3	o	2	o	*	86	68	—
PENINSULA.	Corunna ...	30.21	71	WNW	4	b	30.30	+.10	67	63	0.0	WNW	2	b	2	b	*	72	59	—
	Lisbon	30.19	68	N	5	b	30.20	+.05	69	62	-2	N	5	b	*	b	*	84	64	—
	Azores (P. Delgada)	30.40	70	NNE	1	0	30.41	+.12	71	66	+2	NNE	1	c	1	bc.o	*	77	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 3.6 hrs;

WEATHER CHARTS

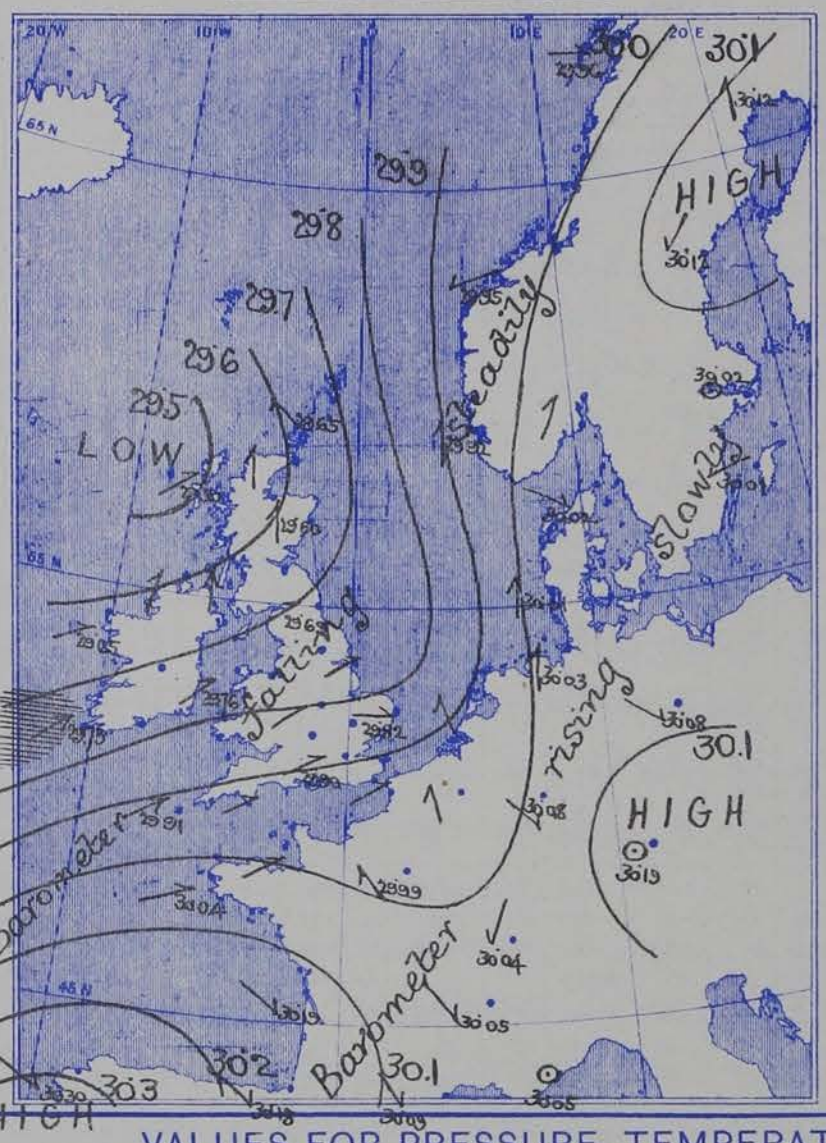
FOR Sunday, 25TH July, 1897.

BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

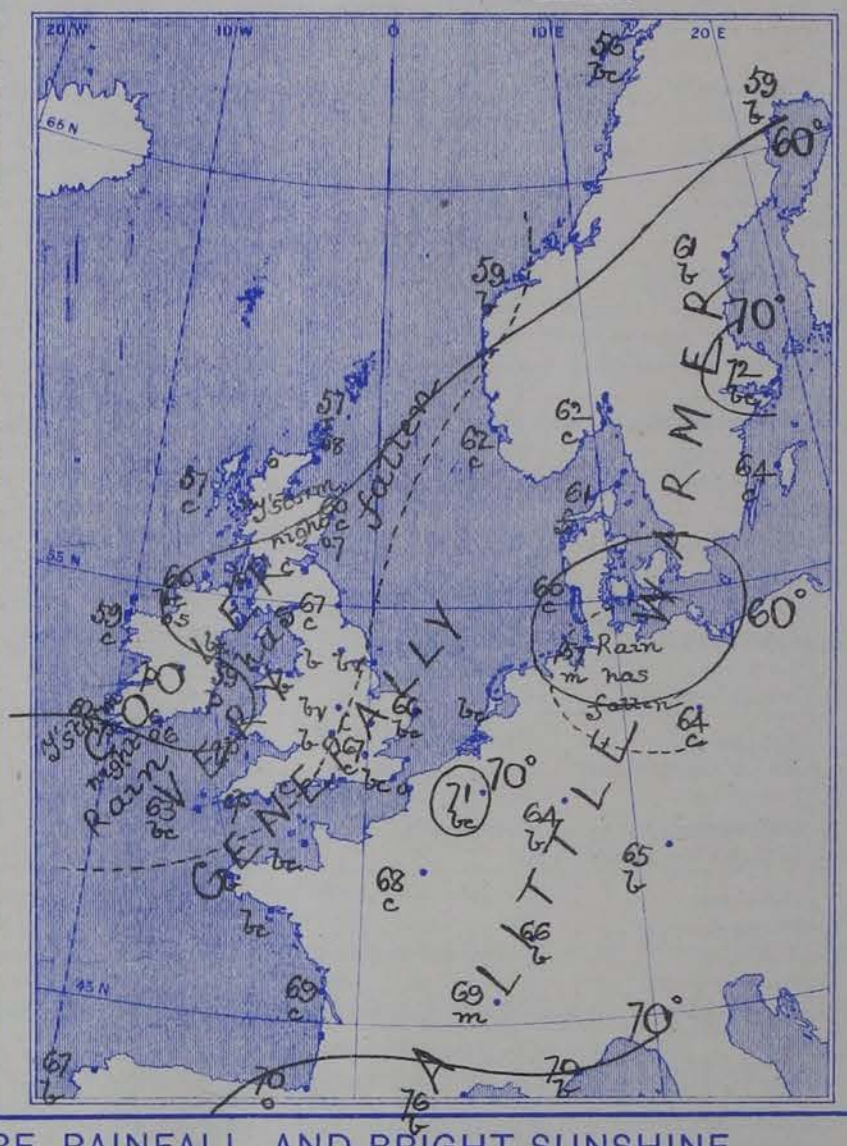
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest (1) 30.3 in. and more to 30.0 in. over Spain & the southwest of France; (2) 30.1 in. and more to 30.0 in. over Central Europe and almost the whole of Scandinavia.
Lowest 29.5 in. in a depression, the central part of which lay off the northwest of Scotland, and below 30.0 in. over the southwestern part of the Baltic.
Gradients moderate over our islands and the North Sea. Barometer falling generally, most in the NE.

TEMPERATURE

Highest (1) 76° to 70° in the southwest & south of France, 71° at Brussels, 69° at the Helder, 68° at Paris & at Cambridge; (2) 72° at Stockholm & Karlstad.
Lowest 56° at Bodö, 57° at Stornoway, 59° at Belmullet, Parsonstown and Holyhead.
The maxima recorded yesterday were as high as 80° to 83° over the greater part of England, and touched 85° at Cambridge. On the Continent 77° was the highest value at Berlin, 80° at Brussels, 86° at Nice and Biarritz, and 93° at Rochefort.

WIND

Moderate to strong from WSW. and SW. over Ireland and England, with the English Channel, moderate S. over Scotland, S. to E. in the west of Norway.
Over the Bay of Biscay it is W. to NW., while in the northeast of France and over Belgium it is SE.

WEATHER

Squally and showery over the western parts of the Kingdom, fine in the east & northeast, as well as over France, Germany & Scandinavia. Rain had fallen, except in the extreme south of England and over the adjacent Continental Countries. In the Eastern and Central districts the fall was small, but amounted to 0.6 in. at Roche's Point, 0.5 in. at Malin Head, 0.4 in. at Aberdeen & 0.8 in. at Lamburgh Head. Thunderstorms had occurred in the East of Scotland & south of Ireland. Bright Sunshine yesterday amounted to 12.8 hrs. at Cambridge & 10.4 hrs. in London, but decreased westwards to less than 3 hrs. on our southwest coast, and northwards to 0.1 hr. at Stornoway.

SEA

Rather rough to moderate in the northwest, west and southwest, slight to smooth elsewhere.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

FORECASTS

For the 24 hours ending at NOON on 26th JULY 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	NONE ISSUED.	6 SCOTLAND WEST	NONE ISSUED.
1 SCOTLAND EAST		7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	
3 ENGLAND EAST		9 IRELAND NORTH	
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30.05	64	59	NNW	4	bc	2
Sumburgh Head	29.94	58	58	NE	2	c	3
Stornoway	29.89	61	59	SW	4	r	5
Aberdeen	29.96	68	61	SSE	4	bcq	2
Shields	29.99	68	63	ESE	3	c	2
Ardrossan	29.92	63	62	SSE	1	o	1
Malin Head ...	29.88	62	60	S	4	o	2
Belmullet	29.82	68	64	SW	1	c	*
Holyhead	29.95	65	62	SW	3	om	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.79	64	62	S	4	oq	4
Scilly	29.98	73	69	S	4	c	3
Jersey	30.05	76	68	SE	2	b	2
Hurst Castle ...	30.07	73	65	SE	2	b	2
Dungeness ...	30.10	68	64	WSW	1	b	0
North Foreland	30.10	77	68	S	3	b	2
London (Westminster)	30.05	80	65	SSE	3	b	*
Yarmouth ...	30.07	69	65	SSE	4	b	3
Rochefort ...	30.11	86	80	ESE	2	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine over the Mediterranean, Spain, France, the greater part of England and the east of Scotland; cloudy or overcast elsewhere - rainy in several parts of Central Europe, and still more generally over Ireland. Rain falling later in considerable quantity over the western and northern parts of our islands, and over North Germany; amounts varying from 0.8 in. to 0.4 in. in some places.

Temperature risen decidedly over Great Britain, slightly over France, fallen over Ireland. Morning readings highest 84° at Aumale, 82° at Gaex and Barcelona and ranging from 79° to 68° at the Mediterranean stations as a whole; above 60° all over the Continent - 70° at Riga, 69° at Uleaborg, Hernösand and Memel. Lowest 53° at Bodö, 55° at Sumburgh Head, 59° at Paris, the Helder and Nimeuen. Rising later to much above 80° over many parts of England, to 86° at Nice and Biarritz and to 93° at Rochefort.

Wind light and anticyclonic over France, western Germany, the Netherlands and the eastern half of England; moderate from the S.rly on all our western and northern coasts; N.ly and NE.ly over the north of Scandinavia; W.ly over the greater part of Central Europe. Becoming S.ly to SE.ly all over our islands later, and freshening somewhat.

Barometer highest 30.2 ins. and more to 30.1 ins. all over France, the eastern half of England, and the Mediterranean and north of Africa, and exceeding 30.1 ins. in the western part of Lapland also. Lowest below 29.8 ins. over the central and southern parts of Russia, and below 29.9 ins. over the Hebrides and the western parts of Ireland. Falling over our islands and France all day, and a small thunderstorm disturbance appearing over the Channel and north of France.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

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DAILY WEATHER REPORT

for 8 a.m. on MONDAY JULY 26TH 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA	Haparanda ...	29.98	59	?	2	c	29.79	-.33	63	58	+4	SW	4	b	*	c	*	70	46	—
	Hernösand ...	29.96	59	E	2	b	29.82	-.30	65	60	+4	SE	2	b	*	b	*	72	50	—
	Stockholm ...	29.96	66	S	0	b	29.88	-.14	66	62	-6	S	2	bc	*	b	*	79	59	—
	Wisby	29.99	60	SSE	4	b	29.89	-.12	63	61	-1	S	4	c	*	b	*	64	55	—
	Karlstad ...	29.88	73	E	2	0	29.76	-.25	68	65	-4	S	2	0	*	0.7	*	*	*	0.35
	Bodö	29.88	56	S	0	b	29.77	-.19	59	55	+3	N	2	b	1	b	*	59	50	—
	Christiansund ...	29.73	66	W	4	c	29.62	-.33	61	58	+2	S	0	c	1	c	*	70	59	—
	Skudesnaes ...	29.75	61	S	4	0	29.68	-.24	60	57	-2	SSE	6	c	4	of. 0	*	63	57	*
	Færder (Christiania Fjord)	29.88	64	SSE	1	0	29.71	-.29	63	62	-2	S	4	b	2	0	*	66	63	0.12
	Skagen (The Scaw)	29.86	65	S	1	b	29.74	-.28	62	59	+1	W	3	b	0	b	*	75	59	0.24
	Fanö	29.82	65	SSW	2	b	29.79	-.22	62	60	+2	SW	2	b	*	b	*	75	59	0.20
BRITISH ISLANDS	Sumburgh Head	29.53	59	SE	2	c	29.45	-.20	55	55	-2	SE	1	c	4	c	*	59	49	0.20
	Stornoway ...	29.47	61	WSW	5	c	29.45	-.05	57	56	0	NNW	4	0	4	p.c	8.1	63	52	0.08
	Wick	29.56	62	SE	1	c	29.46	-.11	58	56	-2	WSW	2	0	2	t.c	*	68	52	0.03
	Nairn	29.51	68	W	3	bc	29.45	-.08	57	56	-8	W	2	+	1	bc	*	70	49	0.06
	Aberdeen ...	29.56	60	SW	2	c	29.48	-.12	61	56	+1	SW	2	bc	2	qp.c	7.3	68	52	0.05
	Leith	29.61	66	SSW	1	0	29.56	-.08	63	62	+1	WSW	3	c	*	0	*	69	53	0.37
	Shields	29.66	62	SW	3	c	29.63	-.06	63	59	-4	WSW	4	c	2	r.tl.c	*	72	53	0.06
	Spurn Head ...	29.76	65	SW	4	bc	29.73	-.06	64	62	-3	WSW	5	bc	4	ptl.bc	*	72	57	0.01
	York	29.72	65	WSW	3	bc	29.73	-.01	64	59	-1	WSW	4	bc	*	tl.bc	8.3	72	56	0.30
	Loughborough ...	29.82	59	W	2	c	29.83	-.01	63	58	-1	WSW	4	bc	*	tpqu	*	71	56	0.17
	Ardrossan ...	29.58	60	SW	4	b	29.62	-.01	58	58	+1	W	5	oq.p	3	b	*	62	54	0.20
	Malin Head ...	29.58	60	WNW	4	c	29.66	+.06	58	56	-2	W	5	cp	3	bc.c	*	63	53	0.16
	Belmullet ...	29.68	62	WNW	3	0	29.78	+.13	60	58	+1	WNW	2	c	*	b.0	*	64	56	—
	Donaghadee ...	29.60	62	SW	4	bc	29.71	+.02	61	58	-1	WSW	4	c	2	t.bc	*	65	57	0.11
	Liverpool (Bidston)	29.73	61	SW	4	0	29.77	0.0	59	55	-5	WSW	6	0	5	p.0	*	67	56	0.15
	Holyhead ...	29.72	58	SW	5	p	29.81	+.05	58	56	-1	SW	4	c	3	p	*	63	54	0.29
	Parsonstown ...	29.70	60	W	3	c	29.71	+.01	60	59	+1	W	1	op	*	c	6.9	65	54	0.38
	Valencia ...	29.86	62	WSW	5	bc	29.89	+.16	60	58	0	W	5	c	5	bc	5.6	64	56	0.18
	Roche's Point ..	29.83	64	W	5	c	29.90	+.12	61	59	0	W	5	bc	4	c	*	65	55	0.10
	Pembroke (St. Ann's Hd.)	29.82	61	W	7	0	29.89	+.08	61	59	+3	WNW	5	bc	5	0	7.9	62	57	0.03
	Scilly	30.01	64	WSW	6	cp	29.99	+.08	62	59	-1	WSW	6	c	4	pc	12.4	68	57	0.03
	Prawle Point ...	29.98	61	W	6	bc	29.99	+.04	60	57	-3	WSW	4	c	3	bcp	*	65	57	0.01
	Jersey (St. Aubin's)	30.08	66	NW	5	b	30.08	+.04	62	60	-3	SW	4	bcm	3	b	*	69	59	—
	Hurst Castle ...	29.96	65	WSW	5	b	29.98	+.03	65	60	-1	WSW	4	c	3	b	*	68	60	—
	Dungeness ...	29.94	66	WSW	6	b	29.94	+.04	62	60	-4	WSW	6	c	5	b	*	69	61	0.01
	North Foreland	29.91	68	SW	6	bc	29.94	+.04	66	60	-4	SW	4	bc	3	bc	*	78	57	—
	London (Brixton) ...	29.88	66	WSW	3	c	29.93	+.03	65	59	-2	W	3	bc	*	bc.p.b	12.5	77	58	0.16
	Oxford	29.88	62	SW	3	b	29.90	+.02	63	58	-1	WSW	3	bp	*	tl.bp	*	71	57	0.10
	Cambridge ...	29.84	71	SW	4	c	29.88	+.03	63	58	-5	SW	4	bc	*	c	11.7	78	56	—
	Yarmouth ...	29.82	73	WSW	5	b	29.82	0.0	65	60	-1	WSW	4	b	3	b	*	75	56	—
GERMANY & HOLLAND	Cuxhaven ...	29.80	75	S	3	0	29.86	-.17	60	59	+3	SW	4	b	*	o.tl+	*	79	57	0.35
	Berlin	29.94	70	SSE	1	b	29.93	-.15	64	60	0	WNW	5	c	*	b	*	77	61	—
	Wiesbaden ...	*	*	*	*	*	30.08	0.0	65	60	+1	SE	2	b	*	*	*	68	59	—
	Munich	30.06	67	SE	1	b	30.16	-.03	61	61	-4	W	2	+	*	b	*	79	61	0.12
	The Helder ...	29.85	67	SW	4	b	29.84	-.04	64	59	-5	WSW	5	bc	3	b	*	77	63	—
BELGIUM	Brussels ...	*	*	*	*	*	30.02	+.09	61	57	-10	SW	4	0	*	b	*	79	55	—
	Cape Gris Nez ...	29.95	63	W	5	b	29.94	+.03	60	59	-3	WSW	6	0	6	b	*	66	59	—
	Paris	30.06	73	W	2	b	30.13	+.14	62	58	-6	SW	2	b	*	b	*	79	55	—
	Brest	30.13	66	SE	3	bc	30.09	+.05	62	58	0	WSW	3	0	3	bc	*	70	55	—
	Lorient	30.17	66	W	4	c	30.14	+.05	63	62	-2	W	4	c	5	c	*	73	61	—
FRANCE	Rochefort ...	30.25	71	NW	5	b	30.25	+.06	66	65	-3	NNW	3	c	*	c.b	*	75	64	—
	Belfort	30.02	67	WSW	4	c	30.10	+.06	63	59	-3	WSW	2	bc	*	c	*	83	59	0.04
	Lyons ...	30.10	72	NNW	1	+	30.16	+.11	63	57	-6	NNW	2	bc	*	+	*	85	61	—
	Nice	29.96	75	SW	2	b	29.95	-.10	69	67	-1	Z	0	fb	1	b	*	82	66	—
	Perpignan ...	30.09	78	NW	4	b	30.12	+.03	71	62	-5	NW	3	fb	*	b	*	86	68	—
	Biarritz ...	30.20	71	NW	3	c	30.17	-.01	66	63	-4	N	3	0	2	c	*	77	63	—
PENINSULA	Corunna ...																*			
	Lisbon	30.20	66	N	5	b	30.18	-.02	68	60	-1	N	6	b	*	b	*	79	64	—
	Azores (P. Delgada)	30.46	68	NE	2	bc	30.43	+.02	70	66	-1	?	1	b	2	b.bc	*	77	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

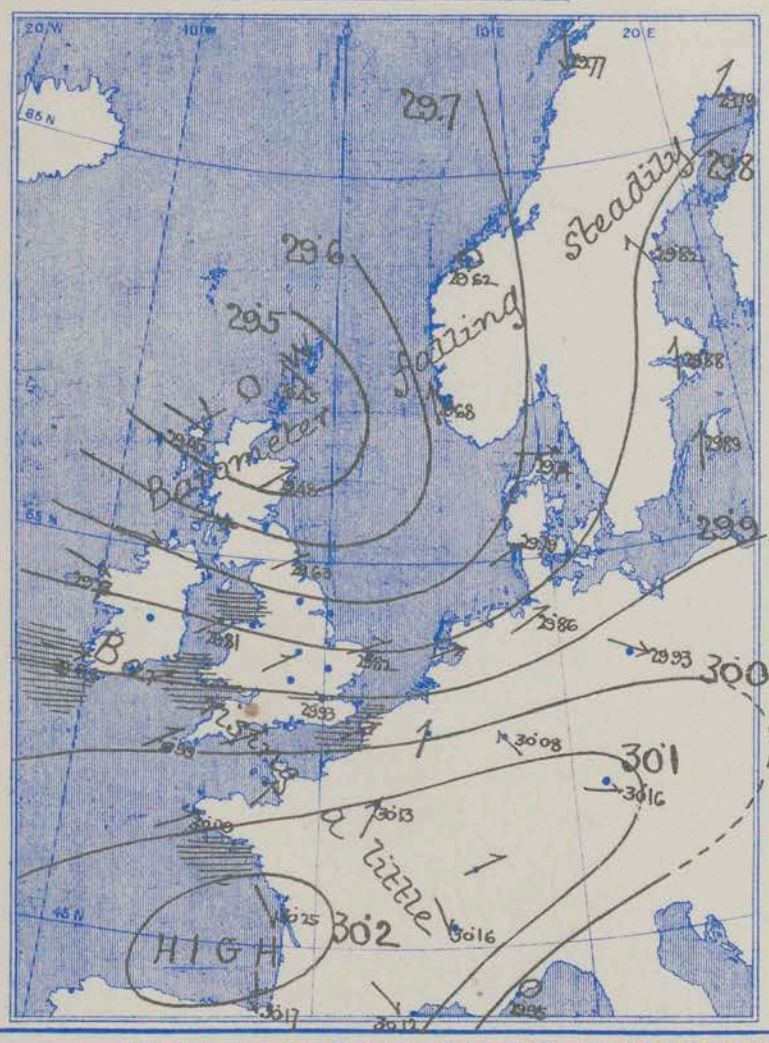
Bright Sunshine yesterday Southport 8.4 hrs;

WEATHER CHARTS

FOR Monday, 26th July, 1897.

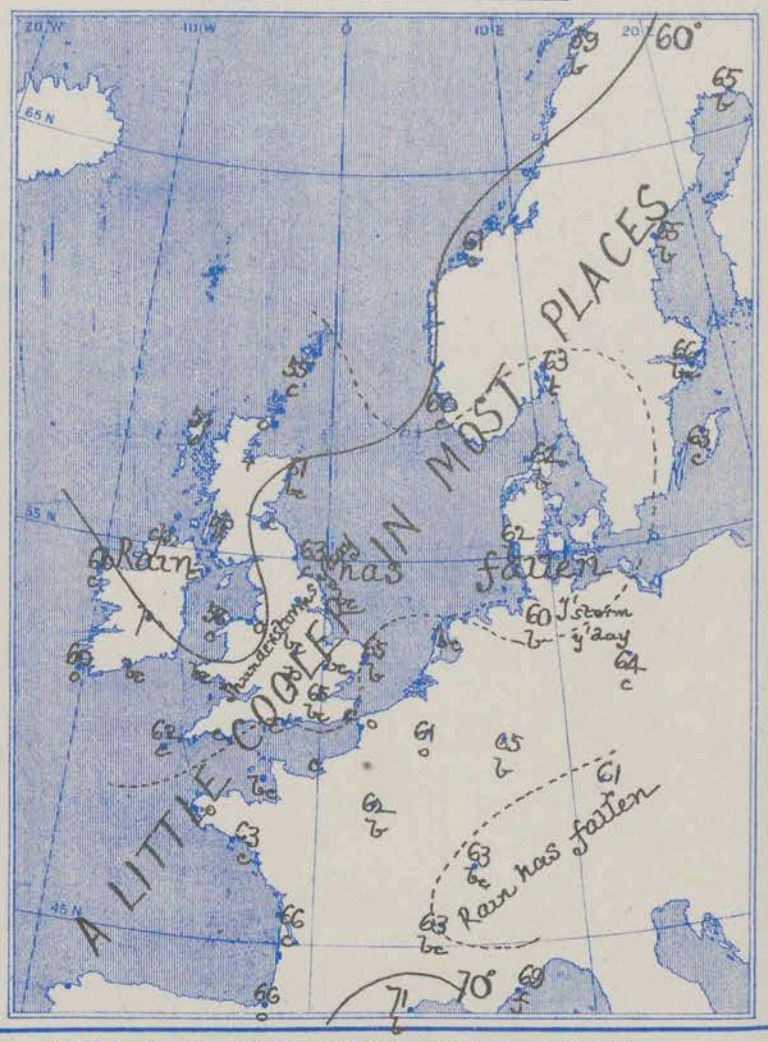
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and more to 30.0 ins. over the Bay of Biscay, Spain and France.
Lowest about 29.45 ins. over the Shetlands and the most northern parts of Scotland.
Gradients moderate, and favourable for W.ly winds over our islands.
Barometer falling in the north and east, rising in the northwest, steady in the southwest.

TEMPERATURE

Highest 71° at Perpignan 66° at Biarritz and Rochefort; 68° at Karlstad; 66° at Stockholm.
Lowest 55° at Lerwick H.d, 57° at Stornoway and 58° at Malin Head and Holyhead.
The highest of the maxima recorded yesterday ranged from 70° to 78° – the latter being at the North Foreland & Cambridge. Paris recorded 79°, Nice 82°, and Lyons 86°.

WIND

Moderate to strong from between WNW. and WSW. over the United Kingdom as a whole, moderate from SW. and S. on the eastern shores of the North Sea and from between SSW. and SSE. over Scandinavia.
It blew quite strongly over many parts of England yesterday during some squalls which passed over from the westward.

WEATHER

Cloudy and showery in many parts of Ireland and Scotland, and very showery looking over England though temporarily fine at most of the stations, as well as on the Continent.
Rain fell yesterday over all but our most southern districts; thunderstorms occurred over our northeastern & Midland Counties.
Bright sunshine recorded yesterday amounted to about 12.5 hrs. at Scilly & in London, but to only 5.6 hrs. at Valencia Island.

SEA

Rather rough, both on our western and southern coasts, slight off the east coast.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Sharp passing showers are probable in most places accompanied by bright intervals, and decreasing temperature.

FORECASTS

For the 24 hours ending at NOON on 27th JULY 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST 2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	W.ly (WSW. to WNW) breezes, fresh; rather squally, passing showers, bright intervals. Cooler.	6 SCOTLAND WEST 7 ENGLAND N.W. 8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	Same as No.s 0 to 5.
		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes	29.83	63	61	S	7	qf	4
Sumburgh Head							
Stornoway	29.49	62	59	WSW	6	c	6
Aberdeen							
Shields							
Ardrossan							
Malin Head	29.59	62	58	WSW	8	bc	1
Belmullet	29.64	64	62	W	2	b	*
Holyhead							

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia							
Scilly							
Jersey	30.07	69	62	W	5	b	4
Hurst Castle							
Dungeness	29.93	68	69	WSW	6	b	5
North Foreland							
London (Westminster)							*
Yarmouth							
Rochefort	30.24	73	70	WNW	4	c	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Continental Information not received.

SUMMARY OF CHANGES IN THE WEATHER OVER THE BRITISH ISLANDS AND THEIR NEIGHBOURHOOD FROM JULY 18th to 24th 1897.

The past week witnessed a considerable change from the very dry and warm conditions of the week which preceded it. Monday was rainy over all the southern districts, and in some parts the fall was rather heavy; e.g. 0.60 in. in the southwestern suburbs of London. The falls were subsequently more sporadic, and in many instances were decidedly heavy – thus there were about 1.66 in at Oxford, and about an inch at Leith and Shields on the 20th, and a very heavy fall over the Northern suburbs of London on the 21st; 1.06 in at Valencia on the 23rd, and smaller amounts in many other places. These falls were mainly due to very local thunderstorms, which spread gradually over the Kingdom from the southwestward, and affected several localities over Continental Europe also.

At the close of the week showers were becoming more general; the wind had become S.W. all over the Kingdom and was freshening, with some rise of temperature, and heavy clouds.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on TUESDAY JULY 27TH 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA	Haparanda ...	29.69	60	S	0	bc	29.61	-.18	64	57	+1	S	*	c	*	bc	*	70	54	—
	Hernösand ...	29.69	64	S	4	b	29.61	-.21	64	61	-1	S	0	0	*	b	*	72	54	—
	Stockholm ...	29.77	64	S	2	0	29.74	-.14	64	60	-2	SSW	2	c	*	0	*	73	53	0.32
	Wisby	29.81	63	SSW	4	0	29.80	-.09	62	?	-1	W	4	c	*	0	*	70	52	0.24
	Karlstad ...	29.73	65	SW	2	bc	29.70	-.06	63	58	-5	SSW	4	bc	*	bc.†	*	*	*	0.08
	Bodö	29.62	60	NNE	4	bc	29.58	-.19	55	53	-4	SW	4	c	2	bc	*	63	54	—
	Christiansund ...	29.64	60	NE	1	0	29.55	-.05	60	56	-1	S	0	b	1	0	*	63	55	0.39
	Skudesnaes ...	29.59	59	S	6	0	29.66	-.02	59	57	-1	SSW	4	0	3	c.0	*	63	57	*
	Færder (Christiania Fjord)	29.71	63	SSW	4	c	29.67	-.04	63	59	0	SW	3	bc	3	c	*	66	59	0.67
	Skagen (The Scaw)	29.76	64	SW	1	b	29.73	-.01	61	59	-1	WSW	3	bc	0	b	*	73	53	0.04
	Fanö	29.81	60	SW	2	bc	29.75	-.04	61	59	-1	SW	2	0	*	bc	*	66	60	—
BRITISH ISLANDS.	Sumburgh Head	29.42	57	S	2	0	29.40	-.02	54	52	-1	S	3	0	4	c.0	*	62	53	0.04
	Stornoway ...	29.54	57	WNW	4	f	29.63	+.15	56	54	-1	WNW	3	c	4	od.†	1.5	59	53	0.13
	Wick	29.53	55	NW	3	c	29.56	+.10	55	54	-3	NW	4	0	3	c	*	69	50	0.12
	Nairn	29.54	62	WSW	3	c	29.59	+.14	58	54	+1	WSW	3	c	2	c	*	65	50	0.07
	Aberdeen ...	29.58	60	W	2	cf	29.64	+.16	64	56	+3	SW	2	bc	1	cf.t.cf	5.2	67	52	0.13
	Leith	29.64	65	W	3	0	29.72	+.16	61	59	-2	W	3	b	*	0	*	67	53	—
	Shields	29.69	66	WSW	3	c	29.76	+.13	61	56	-2	W	4	c	2	c	*	70	53	—
	Spurn Head ...	29.76	63	WSW	4	cftl	29.81	+.08	61	60	-3	WNW	4	bctlf	3	ftl	*	69	57	0.16
	York	29.76	67	W	3	b	29.82	+.09	61	56	-3	W	2	b	*	b	9.7	70	52	0.08
	Loughborough ...	29.80	65	WSW	2	c	29.86	+.03	60	57	-3	WNW	2	bc	*	ctfofp	*	73	53	0.17
	Ardrossan ...	29.68	59	W	4	c	29.77	+.15	60	59	+2	W	4	of	3	c	*	64	53	0.01
	Malin Head ...	29.73	58	NW	5	bf	29.82	+.16	58	56	0	WNW	5	o4q	4	bc.bf	*	60	54	0.07
	Belmullet ...	29.83	58	WNW	3	om	29.96	+.18	59	58	-1	WNW	2	0	*	b.om	*	62	53	—
	Donaghadee ...	29.75	60	N	4	bcf	29.86	+.15	60	58	-1	W	4	bc	2	bef	*	69	52	0.09
	Liverpool (Bidston)	29.76	64	WSW	3	bef	29.87	+.10	59	55	0	W	4	0	4	bef	*	66	56	0.06
	Holyhead ...	29.78	59	SW	3	cf	29.92	+.11	57	55	-1	W	3	0	2	of.c	*	63	54	0.05
	Parsonstown ...	29.84	62	SW	1	0	29.98	+.13	60	57	0	W	1	c	*	c.of	6.0	66	52	0.07
	Valencia ...	29.93	62	W	3	bc	30.05	+.16	60	56	0	WNW	3	0	4	c.bc	7.7	60	56	—
	Roche's Point ..	29.89	66	NW	4	bc	30.02	+.12	60	57	-1	NW	4	c	3	bc	*	66	55	—
	Pembroke (St. Ann's Hd.)	29.85	61	W	5	bc	29.96	+.07	60	57	-1	NW	4	bc	4	bc	7.0	61	57	—
	Scilly	29.94	63	WNW	4	cf	29.99	0.0	62	58	0	NW	4	bc	3	of.cf	1.9	68	58	—
	Prawle Point ...	29.93	60	W	2	0	29.96	-.03	62	60	+2	WNW	3	bc	2	0	*	64	55	—
	Jersey (St. Aubin's)	30.00	63	W	5	0fg	29.98	-.10	64	60	+2	WNW	4	bc	3	c.ofgm	*	66	57	0.09
	Hurst Castle ...	29.91	64	WSW	5	c	29.90	-.08	62	59	-3	W	3	c	2	c	*	67	57	—
	Dungeness ...	29.89	63	WSW	6	bc	29.86	-.08	62	58	0	WNW	4	c	3	c.bc	*	67	57	—
	North Foreland	29.89	66	SW	4	0	29.85	-.09	61	59	-5	W	4	0	3	t.tl.o	*	71	54	0.02
	London (Brixton) ...	29.89	63	WSW	4	cf	29.88	-.05	59	58	-6	NW	1	oft	*	bftl.b	7.8	70	58	0.15
	Oxford	29.85	60	SW	2	b	29.88	-.02	60	57	-3	NW	2	bc	*	ftl.b	*	68	56	0.13
	Cambridge ...	29.83	65	SW	3	c	29.85	-.03	61	58	-2	NW	1	0	*	tlt.c	8.5	75	52	0.10
	Yarmouth ...	29.81	66	ENE	1	bc	29.80	-.02	61	59	-4	WNW	3	c	2	b.blf.bc	*	73	53	0.06
GERMANY & HOLLAND.	Cuxhaven ...	29.86	63	SW	2	0	29.78	-.08	59	58	-1	SW	3	0	*	tlf	*	66	54	0.32
	Berlin	29.93	68	W	1	b	29.89	-.04	63	57	-1	WNW	3	0	*	b	*	75	59	—
	Wiesbaden ...	*	*	*	*	*	29.97	-.11	60	57	-5	SW	1	c	*	*	*	77	57	0.08
	Munich	30.07	60	NE	2	c	30.00	-.16	60	58	-1	W	3	0	*	c	*	64	57	0.35
	The Helder ...	29.84	64	WSW	4	c	29.77	-.07	62	59	-2	W	2	c	1	c	*	68	62	—
BELGIUM.	Brussels ...	*	*	*	*	*	?	?	62	58	+1	SW	4	0	*	0	*	71	53	—
	Cape Gris Nez ...	29.91	60	WSW	6	bc	29.84	-.10	59	58	-1	WNW	4	c	4	bc	*	64	57	—
	Paris	30.00	68	WSW	2	b	29.92	-.21	58	57	-4	Z	0	f	*	b	*	74	57	0.24
	Brest	29.98	61	S	2	f	30.05	-.04	60	58	-2	WNW	2	c	3	f	*	66	53	0.24
	Lorient ...	30.04	61	WSW	5	f+	30.02	-.12	61	59	-2	NW	3	c	4	f+	*	73	57	2.95
FRANCE &	Rochefort ...	30.18	68	W	4	0	30.08	-.17	66	65	0	NW	5	0	*	bc.	*	75	64	0.20
	Belfort	30.02	67	W	2	0	29.99	-.11	58	55	-5	Z	0	m	*	0	*	73	54	—
	Lyons	30.05	71	NNW	1	b	29.99	-.17	66	56	+3	W	1	c	*	b.l	*	76	57	—
	Nice	29.87	70	Z	0	c	29.83	-.12	69	67	0	S	1	0	0	c	*	77	66	—
	Perpignan ...	30.04	77	NW	3	b	30.07	-.05	70	60	-1	NW	3	b	*	b	*	81	65	—
	Biarritz ...	30.15	71	NNW	3	b	30.09	-.08	66	62	0	SSW	4	0	3	b	*	79	63	—
PENINSULA.	Corunna ...																*			
	Lisbon	30.17	66	NNW	7	b	30.17	-.01	69	64	+1	N	5	bc	*	b	*	77	64	—
	Azores (P. Delgada)	30.43	68	NE	3	b	30.40	-.03	69	63	-1	ENE	3	b	2	bc.b	*	75	63	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

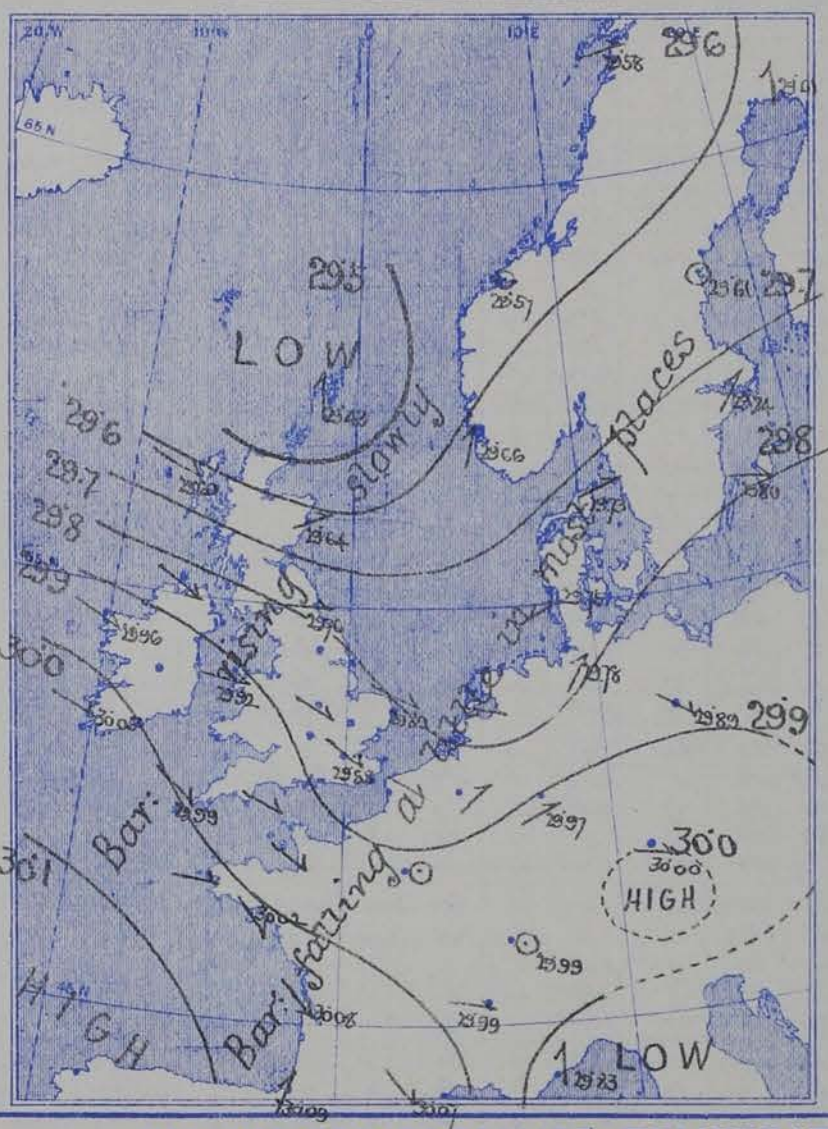
Bright Sunshine yesterday Southport 8.9 hrs;

WEATHER CHARTS

FOR Tuesday, 27th July, 1897.

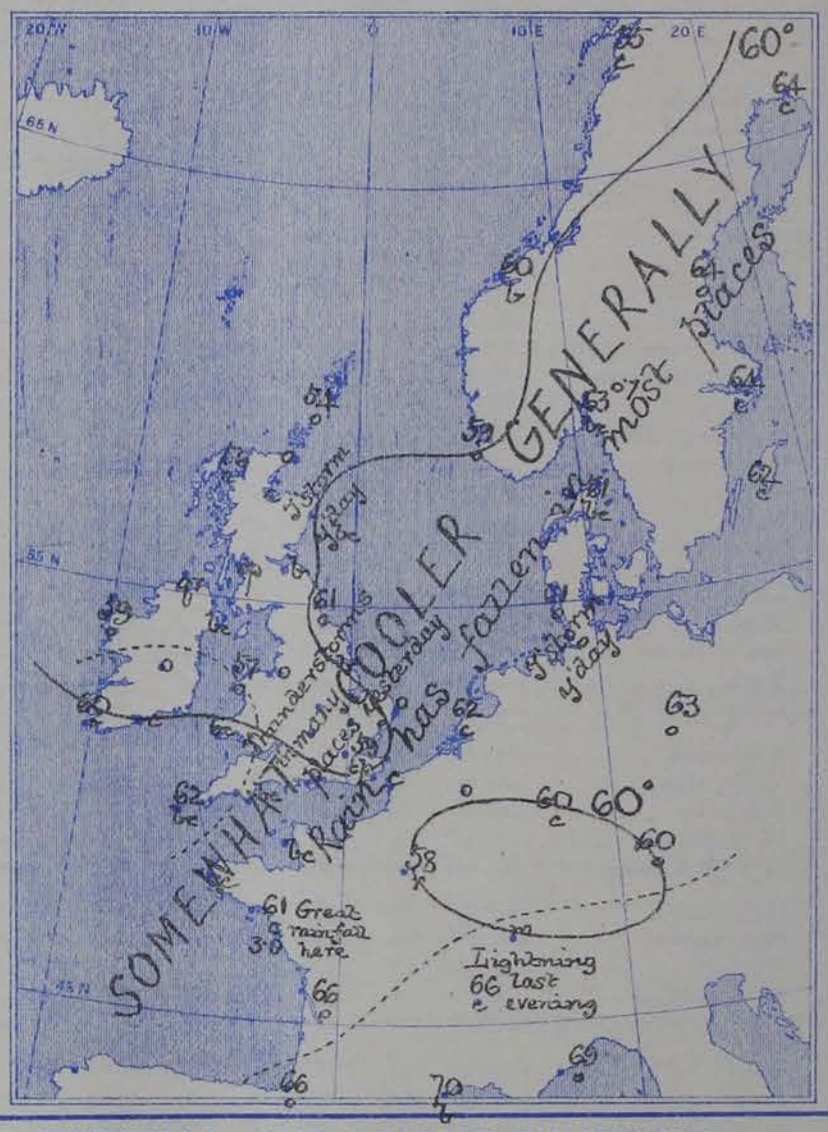
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 56	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.1 ins. and upwards in Portugal, 30.0 ins. and upwards in an area spreading from the Atlantic over the Spanish peninsula, the west of France and the south of Ireland.
Lowest 29.5 ins. and less in a shallow depression lying to the northward of Scotland.
Gradients slight. Barometer rising a little on our islands, but falling at most of the Continental stations.

TEMPERATURE

Highest (1) 70° at Perpignan, 69° at Nice & Lisbon, and 66° at Rochefort, Biarritz and Lyons; (2) 64° at Aberdeen and also at Haparanda, Hernösand and Stockholm.
Lowest 54° at Lerwick Head, 55° at Wick and Bodö, 56° at Stornoway, 57° at Holyhead and 58° at Nairn and Malin Head.
During yesterday the thermometer rose to 70° and upwards at several of the English stations, and to 75° at Cambridge.

WIND

Light to moderate from the westward or northwestward over our islands and the greater part of France and Germany.
South westerly over Scandinavia, Denmark and the Netherlands.

WEATHER

Rather changeable over our islands generally, with thunder showers in the east and southeast of England; showers are falling also at Ardrossan and Malin Head.
Fair at most of the Continental stations, but dull in places, with rain at Paris.
Thunderstorms occurred yesterday in many parts of England, as well as at Cuxhaven, and thunder was heard at Aberdeen. Rain fell in many other parts of our area, the amount reported at Lorient being as large as 2.95 ins.

SEA

Moderate to smooth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The small secondary depressions which are moving across England seem likely to pass away shortly to the eastward, and in their rear some temporary improvement in the weather is probable. The general appearance is, however, still far from settled.

FORECASTS

For the 24 hours ending at NOON on 28TH JULY 1897.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W.ly and NW.ly winds, light, fair generally, but local showers.
1 SCOTLAND EAST	
2 ENGLAND N.E.	NW.ly to W.ly winds, light; showery at first with thunder in places, improving temporarily later.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Same as No. 0 and 1.
7 ENGLAND N.W.	NW.ly to W.ly winds, moderate; fair at first, some showers later.
8 ENGLAND S.W.	
9 IRELAND NORTH	
10 IRELAND SOUTH	
WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	29.64	63	59	S	6	c	4
Sumburgh Head	29.45	59	57	SE	2	c	4
Stornoway	29.52	58	56	NNW	4	∞	4
Aberdeen ...	29.54	64	60	W	2	c/p	1
Shields	29.69	68	60	WSW	4	c	2
Ardrossan	29.68	62	61	W	4	c	3
Malin Head ...	29.81	60	58	WSW	5	bc	3
Belmullet	29.88	62	61	WNW	3	b	*
Holyhead	29.81	60	57	SW	4	c/p	3

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	29.92	60	58	W	3	c	4
Scilly	29.95	68	63	WSW	4	o/p	4
Jersey	30.05	65	59	SW	5	c g	4
Hurst Castle ...	29.95	65	61	SW	5	c	3
Dungeness ...	29.92	63	60	WSW	6	c	4
North Foreland	29.91	69	61	SW	5	f	3
London (Westminster)	29.89	69	60	WSW	3	c	*
Yarmouth ...	29.87	73	63	WSW	4	b	3
Rochefort ...	30.24	75	73	NW	3	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine over England, but showery in many parts of Ireland and Scotland. Cloudy or dull over the most central parts of the Continent as a whole, with rain at Copenhagen, Swinemünde and Munich and thunder at Sverder; fine in most of the southern and extreme northern countries. Thunderstorm occurring later in several parts of England and also at Cuxhaven; thunder heard at Aberdeen and rain falling in many portions of western Europe.

Temperature fallen in our islands, France, Spain and the Netherlands; risen or changed irregularly elsewhere. Morning readings highest 84° at Barcelona, 83° at Trieste, 81° at Sfax, 79° at Aumale and 78° at Sauguenavie; above 70° over Southern Europe generally and above 65° over the Baltic Provinces and the south of Sweden. Lowest (1) 49° at Archangel & 56° at Moscow; (2) 55° at Sumburgh Head and 57° at Stornoway and Nairn. Rising during day to between 70° and 75° at many of the English stations; exceeding 75° in some parts of Germany and the south of France and reaching 81° at Perpignan.

Wind moderate to strong from the W. or SW. over our islands and the neighbouring parts of the Continent; S. or SE. over Scandinavia and northern Russia. Light from the N^rd^ over Southern Europe as a whole, but variable over the northern parts of Italy and the Adriatic. Subsequently veering to the NW. on our own western coasts; no important change occurring elsewhere.

Barometer highest 30.1 in. to 30.2 in. and upwards in an anticyclone lying over the Bay of Biscay, France and the western and northern part of the Spanish peninsula; 30.0 in. and upwards in another system over the Gulf of Finland and the neighbouring provinces. Lowest 29.5 in. and less in a depression lying off the north of Scotland; 29.6 in. and less in another disturbance over the south of Russia. Small secondary depressions passing eastwards across our islands during day and barometer changing somewhat irregularly.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Wednesday, 28th July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Change since Yesterday.	Temperature Dry Bulb.	Wet Bulb.	Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.57	61	S	4	f	29.61	.00	61	59	- 3	SW	4	0	*	f	*	?	59	-
	Hernösand ...	29.60	65	S	4	c	29.69	+.08	66	58	+ 2	S	2	b	*	c	*	75	61	-
	Stockholm ...	29.72	61	SSW	4	b	29.80	+.06	66	61	+ 2	SW	2	b	*	b	*	70	57	-
	Wisby	29.79	59	S	4	b	29.83	+.03	61	59	- 1	WNW	4	c	*	b	*	68	55	-
	Karlstad ...	29.68	64	SW	2	b	29.82	+.12	61	56	- 2	WSW	2	c	*	b	*	*	*	-
	Bodö	29.59	53	W	3	r	29.62	+.04	54	51	- 1	ENE	4	c	1	r	*	55	50	0.28
	Christiansund ...	29.69	59	NW	1	c	29.81	+.24	58	54	- 2	W	1	bc	1	c	*	64	55	-
	Skudesnaes ...	29.69	59	W	2	0	29.85	+.19	58	55	- 1	Z	0	c	2	c.o	*	61	50	*
	Færder (Christiania Fjord)	29.65	64	SW	5	c	29.75	+.08	62	58	- 1	WSW	2	b	2	c	*	66	61	-
	Skagen (The Scaw)	29.73	61	W	1	b	29.80	+.07	61	56	0	WNW	2	b	0	b	*	72	59	0.04
	Fanö	29.78	59	WNW	2	b	29.83	+.08	61	58	0	W	2	c	*	b.tl r	*	68	57	0.04
	Sumburgh Head	29.51	55	W	3	0	29.74	+.31	56	55	+ 2	NE	2	0	3	0	*	58	51	0.09
	Stornoway ...	29.74	57	NW	4	0	29.88	+.28	56	55	0	WNW	3	0	3	c.o	3.4	60	50	-
	Wick	29.69	58	NW	5	0	29.85	+.29	56	54	+ 1	N	5	0	4	op	*	63	51	0.11
	Nairn	29.72	61	WNW	3	bc	29.87	+.28	58	53	0	NW	2	0	2	bc	*	65	51	0.02
	Aberdeen ...	29.73	60	W	2	bcp	29.86	+.22	57	53	- 1	W	3	og	2	cp.t.p	5.2	66	53	0.21
BRITISH ISLANDS.	Leith	29.78	63	W	4	c	29.92	+.20	61	59	0	W	3	c	*	c	*	68	52	-
	Shields	29.82	63	W	3	c	29.93	+.17	60	55	- 1	W	4	c	2	c	*	71	51	-
	Spurn Head ...	29.85	65	WNW	5	b	29.94	+.13	61	59	0	W	5	c	3	b	*	68	56	-
	York	29.87	67	W	4	b	30.02	+.20	60	54	- 1	W	2	b	*	b	13.0	71	51	0.05
	Loughborough ...	29.94	67	WNW	4	b	30.02	+.16	61	56	+ 1	WNW	2	cuw	*	bcq.c	*	70	53	-
	Ardrossan ...	29.85	59	W	4	cp	29.94	+.17	58	57	- 2	W	2	o	2	cp	*	63	54	0.02
	Malin Head ...	29.92	58	W	5	cp	29.96	+.14	57	57	- 1	SSE	2	r	1	cp	*	60	55	0.06
	Belmullet ...	30.03	58	W	1	or	30.02	+.06	61	60	+ 2	W	1	om	*	c.r	*	63	55	0.68
	Donaghadee ...	29.94	65	WSW	5	b	29.99	+.13	58	58	- 2	WSW	2	r	1	b	*	69	52	0.01
	Liverpool (Bidston)	29.94	63	W	5	b	30.01	+.14	56	54	- 3	W	3	r	3	b	*	66	55	0.05
	Holyhead ...	29.98	60	SW	3	bcp	30.01	+.09	57	56	0	SW	2	am	1	b.bcp	*	68	55	0.01
	Parsonstown ...	30.03	62	W	1	0	30.03	+.05	61	60	+ 1	W	2	r	*	c.o	5.1	67	55	0.37
	Valencia ...	30.11	62	WSW	3	og	30.14	+.09	61	60	+ 1	W	3	om	4	c.og	3.6	63	58	0.08
	Roche's Point ..	30.07	64	WNW	4	c	30.10	+.08	63	59	+ 3	WNW	4	c	3	c.a	*	67	56	0.05
	Pembroke (St. Ann's Hd.)	30.03	62	W	4	bc	30.02	+.06	60	59	0	W	5	af	4	bc	11.7	63	56	0.17
	Scilly	30.11	64	WNW	3	bc	30.13	+.14	62	60	0	WNW	5	o	3	bc	13.3	68	57	-
	Prawle Point ..	30.06	65	NW	3	bc	30.11	+.15	57	57	- 5	WSW	4	o	3	cp.o	*	70	56	0.01
	Jersey (St. Aubin's)	30.07	66	WNW	5	b	30.17	+.19	64	61	0	W	4	om	3	b	*	68	57	-
	Hurst Castle ...	29.99	68	SW	4	bc	30.08	+.18	63	59	+ 1	WSW	4	c	2	gp.c	*	71	58	0.10
	Dungeness ...	29.91	64	WSW	4	bc	30.04	+.18	63	59	+ 1	W	2	c	1	c.bc	*	70	55	0.02
	North Foreland	29.92	68	NW	2	bc	30.03	+.18	64	61	+ 3	W	2	c	2	bc	*	71	57	0.02
	London (Brixton) ...	29.93	68	WNW	2	bc	30.05	+.17	63	58	+ 4	WNW	2	bc	*	klp.b	7.5	73	55	0.02
	Oxford	30.00	61	W	2	c	30.05	+.17	61	57	+ 1	W	3	bc	*	c	*	69	55	-
	Cambridge ...	29.92	68	W	2	b	30.03	+.18	63	57	+ 2	NW	2	o	*	b	8.3	72	55	-
	Yarmouth ...	29.88	62	S	2	p	29.96	+.16	62	58	+ 1	WNW	4	bc	3	b, ltr.p	*	65	55	0.10
GERMANY & HOLLAND.	Cuxhaven ...	29.78	64	WNW	2	bc	29.86	+.08	59	57	0	SW	2	tlr	*	bc	*	64	55	0.04
	Berlin	29.80	63	SW	1	b	29.85	-.04	57	55	- 6	WNW	3	o	*	b	*	70	55	0.35
	Wiesbaden ...	*	*	*	*	*	30.01	+.04	61	57	+ 1	NNW	1	o	*	*	*	68	57	0.04
	Munich... ..	29.90	55	Z	0	r	30.06	+.06	50	50	- 10	W	3	r	*	r	*	64	50	1.22
	The Helder ...	29.86	63	NW	3	b	29.92	+.15	61	56	- 1	WNW	3	bc	2	b	*	66	61	-
BELGIUM.	Brussels ...	*	*	*	*	*	30.02	?	62	58	0	WNW	3	c	*	b	*	70	52	0.08
	Cape Gris Nez...	29.91	62	WNW	4	c	30.02	+.18	59	57	0	NW	2	o	2	c	*	66	57	0.08
	Paris	29.98	62	NNW	2	b	30.11	+.19	61	59	+ 3	WNW	1	b	*	b	*	69	55	0.24
	Brest	30.13	64	NW	3	b	30.20	+.15	62	59	+ 2	NW	1	o	1	b	*	66	55	-
	Lorient... ...	30.11	67	NW	4	b	30.21	+.19	60	59	- 1	NW	3	c	4	b	*	70	55	-
FRANCE &	Rochefort ...	30.11	68	NW	5	bc	30.27	+.19	63	61	- 3	N	3	b	*	bc	*	70	59	-
	Belfort	29.91	59	W	3	c	30.10	+.11	55	53	- 3	SW	3	m	*	c	*	68	51	0.75
	Lyons	29.99	66	WNW	2	c	30.12	+.13	60	57	- 6	NW	2	b	*	c	*	75	54	0.08
	Nice	29.69	75	Z	0	b	29.76	-.07	73	57	+ 4	Z	0	b	1	b	*	81	64	-
	Perpignan ...	29.99	79	NW	3	b	30.12	+.05	69	60	- 1	NW	4	b	*	b	*	86	64	-
	Biarritz ...	30.11	72	NNW	4	o	30.18	+.09	69	64	+ 3	N	4	o	3	o	*	75	63	0.64
PENINSULA.	Corunna ...																*			
	Lisbon	30.08	68	NNW	6	b	30.03	-.14	77	68	+ 8	NNE	4	c	*	b	*	79	68	-
	Azores (P. Delgada)																*			

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

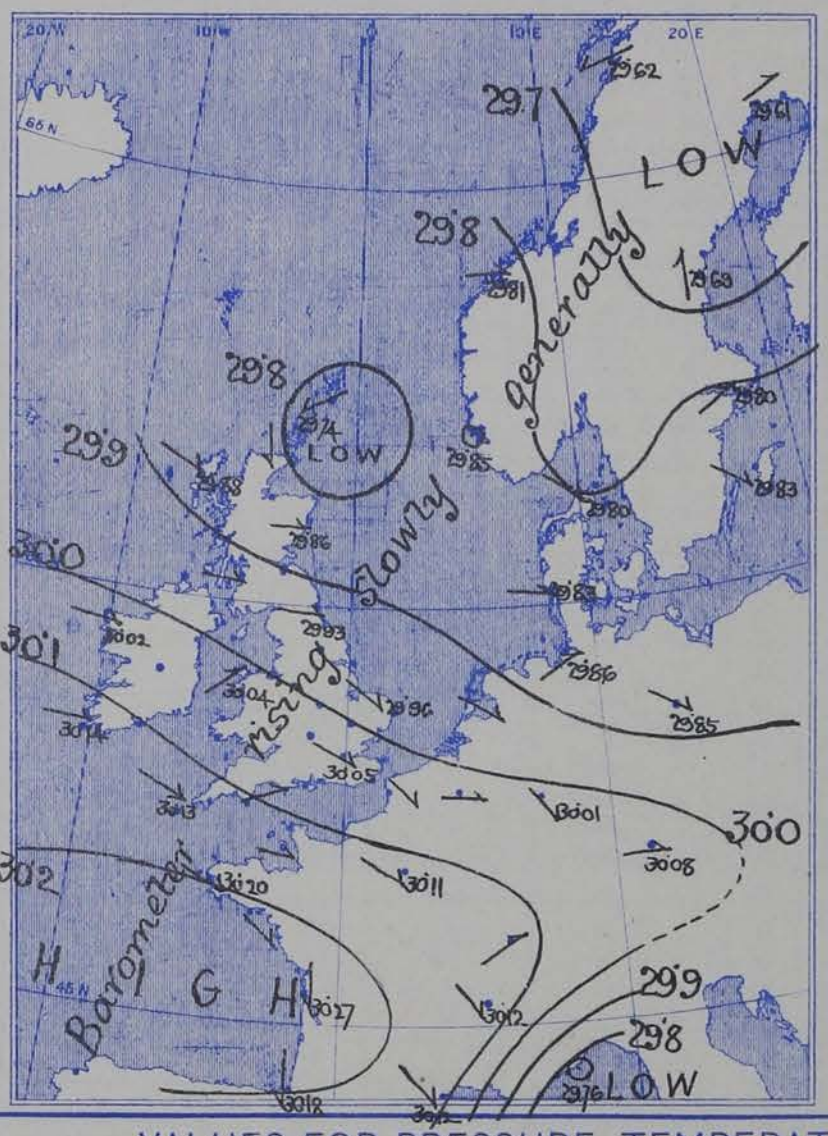
Bright Sunshine yesterday Southport 10.7 hrs;

WEATHER CHARTS

FOR Wednesday 28th July, 1897.

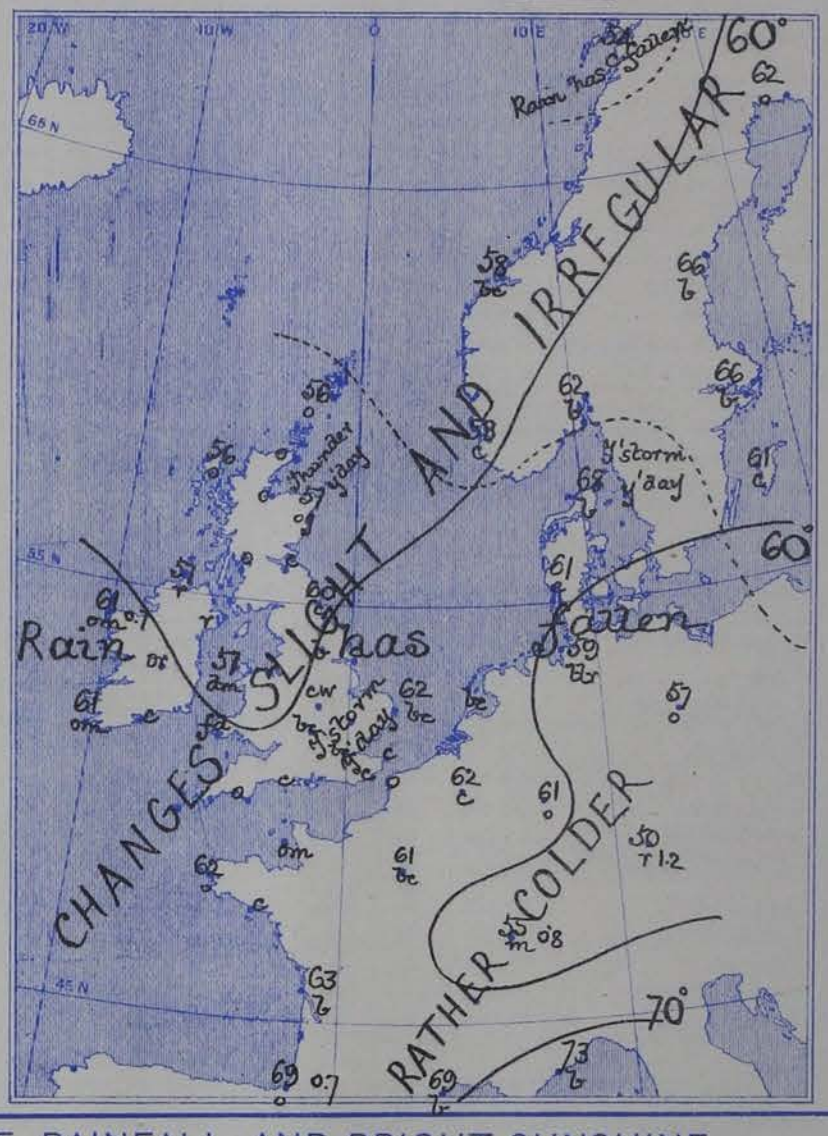
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those withow rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 56	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 78	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30.2 ins. and upwards in an anticyclone lying over the Bay of Biscay and the west of France.
Lowest 29.4 ins. and less over the northern parts of Scandinavia; 29.8 ins. and less in a small shallow depression off the north east of Scotland, and also in a deeper disturbance over the Gulf of Genoa.
Gradients slight generally, but rather steep over the south east of France.
Barometer rising in most places, but inclined to fall at some of our own western stations.

TEMPERATURE

Highest (1) 44° at Lisbon, 43° at Nice & 69° at Biarritz and Perpignan; (2) 66° at Hernösand and Stockholm.
Lowest (1) 50° at Munich & 55° at Belfort; (2) 54° at Bodö & 56° at Lumburgh Head, Stornoway, Wick and Liverpool.
During yesterday the thermometer rose to 90°, or a little above it, at several of the English stations & to 80° & upwards in the south of France.

WIND

Light to fresh from the Westward or Northwestward over Western Europe generally, but Southwesterly in Sweden and variable in the west of Norway.

WEATHER

Cloudy in most parts of the United Kingdom, with rain at several of our northwestern stations. Fine over the western parts of the Continent generally; dull in Germany, with a thunderstorm at Cuxhaven. Rain fell yesterday in many parts of western Europe, the largest amounts being 1.2 ins. at Munich, 0.8 in. at Belfort, and 0.4 in. at Belmullet. Thunderstorms occurred in London and at Yarmouth and Paris, and thunder only was heard at Aberdeen.

SEA

Moderate to smooth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

Small and very shallow depressions are still passing from west to east across our islands, and showery thundery weather seems likely to continue for a time in most districts.

FORECASTS

For the 24 hours ending at NOON on 29th JULY 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH 1 SCOTLAND EAST	W. by N. and NW. by N. winds, light; cloudy, some showers, possibly thunder	6 SCOTLAND WEST	Same as Nos. 0 and 1.
2 ENGLAND N.E. 3 ENGLAND EAST 4 MIDLAND COUNTIES 5 ENGLAND SOUTH	W. by N. and SW. by W. winds, moderate; unsettled, some showers, thunder locally.	7 ENGLAND N.W. 8 ENGLAND S.W. 9 IRELAND NORTH 10 IRELAND SOUTH	W. by N. to NW. by N. winds, moderate; unsettled, some showers, thunder locally.
		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Stornoway	29.70	58	56	WNW	3	o	4
Aberdeen	29.69	58	55	W	3	c	2
Shields	29.79	70	60	W	4	c	2
Ardrossan	29.84	60	59	W	4	cp	3
Malin Head	29.89	59	56	NNW	5	c	4
Belmullet	30.04	62	58	W	3	c	*
Holyhead	29.97	68	62	WSW	3	b	2

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.12	62	59	WSW	4	o	4
Scilly	30.09	67	62	W	4	bc	3
Jersey	30.05	68	62	NNW	5	b	4
Hurst Castle	29.97	67	62	NW	4	c	2
Dungeness	29.91	67	60	WNW	3	c	2
North Foreland	29.90	68	63	W	3	bc	3
London (Westminster)	29.91	69	58	NW	3	c	*
Yarmouth	29.86	65	61	NE	3	b	3
Rochefort	30.11	70	68	NW	5	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning rather changeable over the United Kingdom, with thunder showers in the East and southeast of England; showers falling also on our extreme northwest coasts. Fine over Southern Europe as a whole as well as over northern and Central Russia and the south of Scandinavia. Dull at most of the French, German and Austrian stations, with rain in places. Rain falling later in several parts of Western Europe, with further thunderstorms in the East and southeast of England, as well as at Paris; thunder only heard at Aberdeen.

Temperature fallen in most places. Morning readings highest 81° at Aumale, 79° at Lephorn and 78° at Brindisi and Constantinople; above 70° over Southern Europe generally; above 65° over Finland and the Baltic provinces and touching 71° at Memel. Lowest 54° at Lunburgh Head, 55° at Bodö, 56° at Stornoway, and 57° at Holyhead. Rising during day to 70° or a little above it at several of the English stations; exceeding 80° in the south of France and touching 86° at Perpignan.

Wind light to moderate from the W. or NW. over our islands and the greater part of France, from the SW. over the Netherlands, Germany, Denmark and the south of Scandinavia and from the S. in Finland. Variable over Italy and Austria; N.W. over the Spanish peninsula. Subsequently backing to the SW. at some of our own western stations, but veering to the NW. on the eastern and southern shores of the North Sea.

Barometer highest 30.1 ins. and upwards in an anticyclone extending from the Atlantic over the western parts of the Spanish peninsula; 29.9 ins. and less in another system over Central Russia. Lowest 29.5 ins. and less in a shallow depression lying to the northward of the Shetlands, 29.8 ins. and less in a large shallow area over the south of Russia. Small secondary disturbances passing eastwards across our islands during day, but barometer inclined to rise over Western Europe generally.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers: q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " " £1 10 0 "

DAILY WEATHER REPORT

for 8 a.m. on Thursday, 29th July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	29.75	59	2	0	c	29.97	+.36	53	51	-8	N	4	0	*	c	*	68	53	-
	Hernösand ...	29.86	66	2	0	c	30.02	+.33	62	54	-4	NW	2	b	*	c	*	75	55	-
	Stockholm ...	29.91	63	2	0	b	30.01	+.21	58	60	+2	N	2	b	*	b	*	72	55	-
	Wisby	29.92	61	NE	2	b	30.00	+.17	64	60	+3	N	4	b	*	b	*	64	52	-
	Karlstad ...	29.90	65	W	2	b	30.06	+.24	63	57	+2	NW	2	b	*	b	*	*	*	-
	Bodö	29.89	55	N	2	c	30.03	+.01	51	49	-3	WSW	3	0	2	c	*	?	50	-
	Christiansund ...	29.95	59	2	0	b	30.01	+.20	59	?	+1	NE	1	b	1	b	*	63	54	-
	Skudesnaes ...	29.97	62	N	2	b	30.07	+.22	60	56	+2	S	2	b	2	b	*	63	54	*
	Færder (Christiania Fjord)	29.91	64	SSW	1	b	30.06	+.31	67	64	+5	S	1	b	1	b	*	67	62	-
	Skagen (The Scaw)	29.97	59	NNW	1	b	30.09	+.29	63	59	+2	W	3	b	0	b	*	72	55	-
	Fanö	30.00	59	N	4	b	30.15	+.32	60	56	-1	NNW	3	b	*	b	*	70	55	0.04
	Sumburgh Head	29.89	57	S	1	0	29.96	+.22	55	53	-1	NNW	3	c	3	bc, o	*	60	52	0.04
	Stornoway ...	29.86	54	S	4	r	30.01	+.13	57	56	+1	SSW	3	o	4	o, r	0.0	58	50	0.06
	Wick	29.93	57	NW	5	o	30.07	+.22	58	55	+2	W	3	c	2	o	*	64	51	-
	Nairn	29.92	57	N	1	r	30.05	+.18	58	55	0	W	2	c	1	r	*	65	53	0.05
	Aberdeen ...	29.97	58	S	2	og	30.09	+.23	63	59	+6	NW	2	bc	1	c, o, rg	1.3	65	56	0.03
BRITISH ISLANDS.	Leith	29.98	64	N	3	r	30.12	+.20	60	64	+5	W	2	c	*	r	*	72	56	0.07
	Shields	30.01	60	ENE	1	o	30.14	+.21	66	61	+6	W	3	c	2	c, o, r	*	68	57	0.05
	Spurn Head ...	30.10	60	SE	3	c	30.18	+.24	63	62	+2	WNW	2	o	2	cv, r	*	65	57	-
	York	30.03	67	N	2	o	30.18	+.16	67	63	+7	W	1	o	*	c, o	4.9	68	56	-
	Loughborough ...	30.08	65	WNW	2	o	30.23	+.21	64	62	+3	W	3	o	*	bc, cm	*	71	59	-
	Ardrossan ...	30.01	57	SSE	1	rm	30.17	+.23	59	59	+1	NW	1	op	1	r, rm	*	61	55	0.28
	Malin Head ...	29.99	59	WSW	4	o	30.15	+.19	60	60	+3	WSW	4	o	3	f, rm	*	60	56	0.13
	Belmullet ...	30.09	62	W	3	om	30.23	+.21	61	60	0	WSW	4	o	*	o	*	63	59	0.08
	Donaghadee ...	30.05	59	SSW	2	df	30.21	+.22	65	64	+7	WSW	3	c	1	d, f	*	65	56	0.22
	Liverpool (Bidston)	30.09	59	WNW	1	o	30.23	+.22	61	60	+5	W	4	o	3	op	*	62	56	0.08
	Holyhead ...	30.09	59	SW	2	df	30.25	+.24	63	62	+6	W	3	ogm	2	om, df	*	63	56	0.06
	Parsonstown ...	30.12	65	W	2	o	30.29	+.26	64	60	+3	W	1	c	*	or, o	1.0	67	59	0.02
	Valencia ...	30.23	62	WSW	1	om	30.33	+.19	61	59	0	WSW	2	om	4	om	0.0	63	59	-
	Roche's Point ...	30.17	65	WNW	4	bc	30.33	+.23	62	59	-1	W	1	c	2	c, bc	*	68	54	-
	Pembroke (St. Ann's Hd.)	30.12	60	NW	4	c	30.30	+.28	61	60	+1	WNW	3	o	4	o, c	0.5	63	59	-
	Scilly	30.20	61	WNW	5	o	30.33	+.20	62	60	0	WNW	3	o	2	opm, o	0.3	65	60	-
	Prawle Point ...	30.15	65	WNW	3	o	30.30	+.19	64	61	+7	WNW	2	c	2	c	*	66	57	-
	Jersey (St. Aubin's)	30.15	63	W	4	o	30.31	+.14	64	63	0	NW	3	om	3	or, o	*	64	59	0.18
	Hurst Castle ...	30.10	66	NW	2	og	30.27	+.19	69	68	+6	WNW	1	bcm	1	om, o	*	69	60	0.01
	Dungeness ...	30.05	65	WSW	4	bc	30.25	+.21	60	58	-3	NE	1	m	0	c, bc	*	68	54	-
	North Foreland	30.07	65	SE	1	c	30.26	+.23	64	60	0	SW	2	o	2	c	*	72	55	-
	London (Brixton) ...	30.07	66	WNW	1	bc	30.26	+.21	64	62	+1	WSW	1	o	*	o, c, bm	3.2	69	58	-
	Oxford	30.12	63	WNW	2	o	30.25	+.20	65	63	+4	SW	1	og	*	o	*	66	60	-
	Cambridge ...	30.06	68	W	1	bm	30.24	+.21	65	63	+2	NW	1	o	*	b, m	8.3	73	54	-
	Yarmouth ...	30.05	61	N	2	bcr	30.21	+.25	62	59	0	WSW	2	bc	2	bc	*	64	56	-
GERMANY & HOLLAND.	Cuxhaven ...	29.92	63	NW	3	bc	30.15	+.29	61	58	+2	N	3	b	*	tlr, bc	*	64	57	0.24
	Berlin	29.91	60	WNW	3	c	30.02	+.17	59	56	+2	WNW	5	o	*	c	*	64	54	0.24
	Wiesbaden ...	*	*	*	*	*	30.19	+.18	59	55	-2	N	2	bc	*	*	*	68	55	-
	Munich	30.10	53	NW	4	o	30.19	+.13	52	51	+2	NW	4	r	*	o	*	61	50	0.47
	The Helder ...	30.02	62	NNW	3	bc	30.21	+.29	62	57	+1	W	1	bc	1	bc	*	63	61	-
	Brussels ...	*	*	*	*	*	30.26	+.24	61	58	-1	N	1	o	*	o	*	68	49	0.32
	Cape Gris Nez ...	30.03	67	W	5	o	30.20	+.18	63	59	+4	SW	1	m	o	o	*	66	55	-
	Paris	30.13	64	WNW	2	bc	30.28	+.17	57	56	-4	NNE	2	m	*	bc	*	71	55	0.24
	Brest	30.23	63	NW	2	o	30.32	+.12	62	61	0	N	2	o	2	o	*	66	57	-
	Lorient	30.20	63	NNW	4	o	30.33	+.12	62	61	+2	W	0	m	2	o	*	70	57	-
FRANCE & BELGIUM.	Rochefort ...	30.29	60	NNW	3	bc	30.33	+.06	66	65	+3	NNW	4	bc	*	b, bc	*	72	63	-
	Belfort	30.11	56	W	4	r	30.19	+.09	57	54	+2	W	0	o	*	r	*	67	51	0.143
	Lyons	30.12	68	NNW	2	c	30.22	+.10	57	56	-3	NW	1	o	*	c	*	73	55	0.08
	Nice	29.84	73	SE	4	b	29.90	+.14	73	57	0	W	0	bc	2	b	*	84	64	-
	Perpignan ...	30.10	77	NW	4	b	30.21	+.09	70	61	+1	NW	4	c	*	b	*	83	66	-
	Biarritz ...	30.24	70	NNW	3	bc	30.27	+.09	63	62	+6	ESE	3	o	2	bc	*	75	63	-
PENINSULA.	Corunna ...																*			
	Lisbon	29.96	68	N	4	b	30.00	-.03	82	65	+5	NE	4	b	*	b	*	97	77	-
	Azores (P. Delgada)	30.36	68	NNE	3	c	30.31	-.05	69	65	+1	NNE	2	bc	2	c	*	75	64	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 1.7 hrs;

WEATHER CHARTS

FOR Thursday, 29th July, 1897.

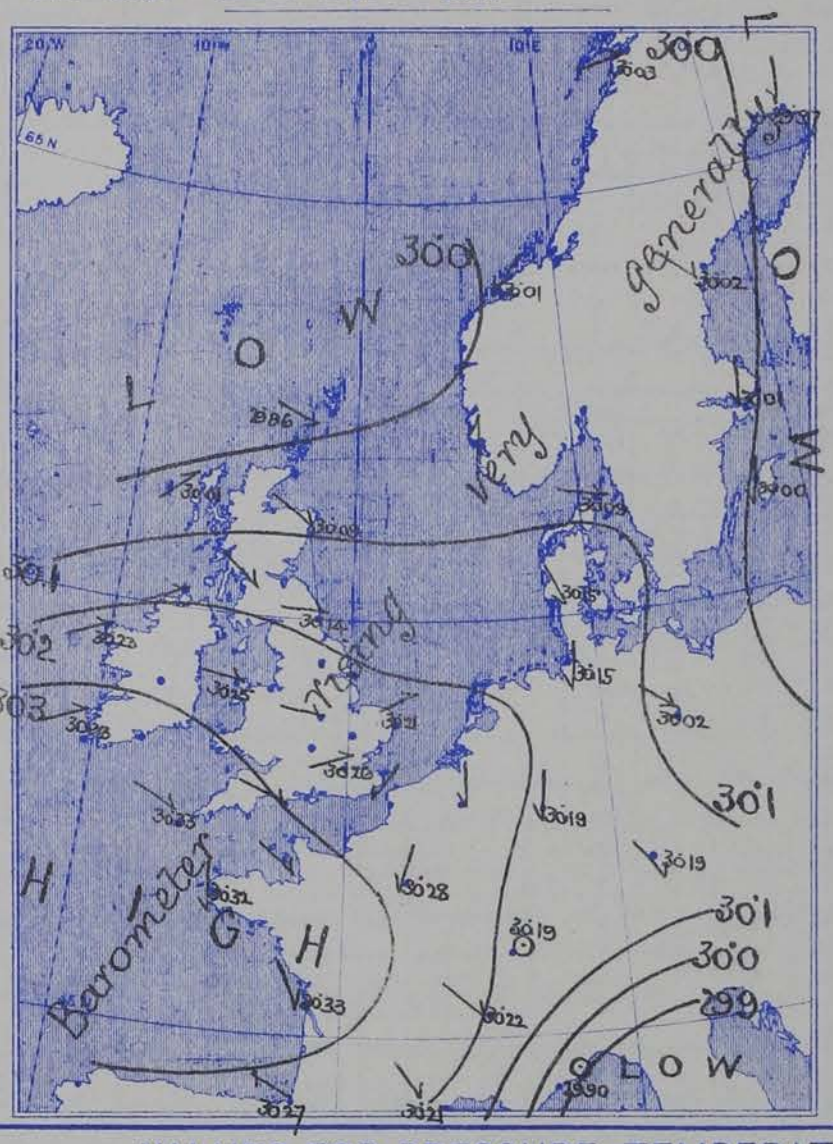
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.

VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE

IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 73	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE

Highest 30·3 ins. and upwards in the central portion of an anticyclone lying over the Bay of Biscay, the west of France and the extreme southwest of our islands.
Lowest 29.9 ins. and less in a depression over the Gulf of Genoa; 30·0 ins. and less in a large shallow area lying to the northward of our islands, and also over the Baltic and the Gulf of Bothnia.
Gradients slight. Barometer rising generally.

TEMPERATURE

Highest (1) 82° at Lisbon, 73° at Nice & 70° at Perpignan; (2) 69° at Hurst Castle & 67° at York; (3) 68° at Stockholm & 67° at Lerwick.
Lowest (1) 51° at Bodö, 53° at Haparanda, 55° at Lerwick & 57° at Stornoway; (2) 52° at Munich & 57° at Paris, Belfort & Lagons.
During yesterday the thermometer rose to 70° and upwards at several of our eastern and central stations.
On our western and extreme northern coasts the maximum readings were, as a rule, below 65°.

WIND

Light to moderate from the Westward over our islands generally, but Southwesterly on our extreme west and north coasts.
Northwesterly or Northerly over the western parts of the Continent as a whole, but Southerly in the south of Norway.

WEATHER

Cloudy or dull over our islands generally, with showers at Ardrossan.
Fine on some parts of our east and southeast coasts, as well as at most of the continental stations, but dull at Berlin, and rainy at Munich.
Rain fell yesterday over the northern parts of the Kingdom generally, as well as in the Channel Islands & many parts of France and Germany.

SEA

Moderate to smooth.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

There are at present no signs of any decided change in the weather. The anticyclone in the southwest is inclined to spread northwards and Eastwards.

FORECASTS

For the 24 hours ending at NOON on 30TH JULY 1897.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	W'ly winds, light; fair generally, but local showers.
1 SCOTLAND EAST	
2 ENGLAND N.E.	W'ly winds, light; fair, warm.
3 ENGLAND EAST	
4 MIDLAND COUNTIES	
5 ENGLAND SOUTH	
6 SCOTLAND WEST	Same as Nos 0 and 1.
7 ENGLAND N.W.	W'ly and NW'ly winds, moderate; fair, warm.
8 ENGLAND S.W.	
9 IRELAND NORTH	W'ly winds, moderate or fresh; changeable, some showers.
10 IRELAND SOUTH	Same as Nos 7 and 8.
WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* ( ), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* ( ), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Shetlands ...	29.89	63	57	W	2	b	3
Spurn Head	29.88	58	56	NE	1	bc	3
Stornoway ...	29.91	57	55	SW	4	o	4
Aberdeen ...	29.94	63	56	NW	2	c	1
Shields ...	29.97	65	57	W	3	c	3
Ardrossan ...	30.00	58	57	SSW	1	r	1
Malin Head ...	29.97	59	59	WSW	3	o	1
Belmullet ...	30.13	63	61	WNW	3	o	*
Holyhead ...	30.06	63	60	WSW	1	om	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.20	63	62	WSW	3	om	4
Scilly	30.18	63	60	WNW	5	opm	3
Jersey	30.16	62	62	W	4	orm	3
Hurst Castle ...	30.08	63	61	SW	3	om	2
Dungeness ...	30.02	66	61	WSW	4	c	3
North Foreland	30.04	71	63	W	3	c	2
London (Westminster)	30.04	70	60	NW	1	o	*
Yarmouth ..	30.01	64	58	N	3	bc	3
Rochefort ...	29.90	69	68	NW	5	b	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy in most parts of the United Kingdom, with rain at several of our northwestern stations. Fine in many of the Continental countries, but dull over Germany, Austria and northern Italy, with rain in several places and with a thunderstorm at Cuxhaven. A little rain falling later over the northern part of our islands generally, and larger quantities at some of the French and German stations.

Temperature changed slightly and irregularly. Morning readings highest 83° at Palma, 82° at Sfax, 80° at Algiers & 79° at Brindisi; above 70° over Southern Europe generally and above 65° in Sweden and Finland. Lowest (1) 50° at Munich and 55° at Belfort; (2) 54° at Bodo and 56° at Lunburgh Head, Stornoway, Wick and Liverpool. Rising during day to 70° and upwards at several of our own Eastern and Central stations, but remaining below 65° on many parts of our western and extreme northern coasts. Exceeding 80° in the south of France and reaching 97° at Lisbon.

Wind light to fresh from the W^ly or NW^ly over Western and Central Europe generally, but SW^ly over Sweden and Northern Russia. Light from the NE in the south of Russia, variable in Austria and northern Italy; N^ly or NE^ly over the Spanish peninsula. Subsequently backing to the S^ly in Scotland and to the SW^ly over the Irish Sea; no important change occurring elsewhere.

Barometer highest 30.2 ins. and upwards in an anticyclone lying over the Bay of Biscay, the west of France and the extreme northwest of Spain; 30.0 ins. and upwards in another system over Central Russia. Lowest 29.7 ins. and less in a large shallow area over the northern parts of Scandinavia, and also in two well marked depressions lying respectively over Galicia and over the provinces to the Eastward of the Adriatic; 29.8 ins. and less in a shallow system off the northeast of Scotland. New depression approaching Scotland later from the westward and barometer falling on our northern coast generally.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on Friday, 30th July, 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, Secretary.

	STATIONS.	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA.	Haparanda ...	30·06	62	⊻	0	c	30·02	+·05	61	57	+ 8	SW	4	bc	#	c	#	64	52	-
	Hernösand ...	30·08	62	⊻	0	bc	30·02	·00	66	62	+ 4	NW	2	c	#	bc	#	75	54	0·08
	Stockholm ...	30·13	67	⊻	0	b	30·13	+·12	71	62	+ 3	⊻	0	b	#	b	#	77	57	-
	Wisby	30·11	63	NNE	4	b	30·12	+·12	65	62	+ 1	NNE	6	b	#	b	#	68	54	-
	Karlstad ...	30·11	67	⊻	0	b	30·15	+·09	58	55	- 5	SW	4	c	#	b	#	#	#	-
	Bodö	30·06	54	⊻	0	b	30·02	-·01	52	51	+ 1	SW	6	0	1	b	#	55	46	0·08
	Christiansund ...	30·12	59	⊻	0	0	30·12	+·11	57	55	- 2	W	1	f	1	0	#	61	55	0·04
	Skudesnaes ...	30·19	62	⊻	0	0	30·22	+·15	60	57	0	⊻	0	bc	1	0	#	65	54	#
	Færder (Christiania Fjord)	30·11	66	SSW	2	b	30·13	+·07	66	64	- 1	E	1	m	2	b	#	70	63	-
	Skagen (The Scaw)	30·18	60	W	2	bc	30·15	+·06	64	61	+ 1	W	3	bc	0	bc	#	68	55	-
	Fanö	30·24	59	⊻	0	b	30·21	+·06	61	59	+ 1	NNW	2	0	#	b	#	68	55	-
BRITISH ISLANDS.	Sumburgh Head	30·05	57	§	3	0	30·11	+·15	54	54	- 1	NW	3	0	4	c, 0	#	61	52	0·22
	Stornoway ...	30·01	59	SSW	5	0	30·24	+·23	56	54	- 1	NW	2	0	3	0	1·4	60	50	0·04
	Wick	30·09	60	S	1	0	30·25	+·18	57	54	- 1	NW	4	0	1	0	#	68	55	-
	Nairn	30·09	67	W	4	bc	30·22	+·17	64	60	+ 6	W	3	c	1	bc	#	74	53	-
	Aberdeen ...	30·14	61	ESE	1	b	30·24	+·15	67	60	+ 4	NW	3	bc	1	b	13·6	69	57	-
	Leith	30·20	69	W	3	c	30·26	+·14	64	63	- 2	WSW	3	c	#	c	#	72	59	-
	Shields	30·22	71	W	3	bc	30·29	+·15	69	64	+ 3	W	3	b	2	c, bc,	#	75	59	-
	Spurn Head ...	30·25	62	E	2	c	30·30	+·12	63	63	0	WNW	3	c	3	c	#	70	59	-
	York	30·25	73	W	2	c	30·33	+·15	66	61	- 1	NNW	1	b	#	c	5·0	76	54	-
	Loughborough ...	30·29	74	WNW	2	b	30·34	+·11	66	61	+ 2	WNW	2	bw	#	0, bc, bm	#	75	50	-
	Ardrossan ...	30·24	63	WNW	1	c	30·29	+·12	60	60	+ 1	SW	2	0	2	0, c	#	64	58	-
	Malin Head ...	30·20	62	WSW	5	c	30·29	+·14	58	58	- 2	N	1	0 w f	0	0, c	#	62	57	0·03
	Belmullet ...	30·29	62	WSW	3	0m	30·33	+·10	62	61	+ 1	WSW	1	0m	#	0, 0m	#	63	58	-
	Donaghadee ...	30·26	69	W	2	c	30·33	+·12	65	63	0	W	3	c	1	c	#	74	59	-
	Liverpool (Bidston)	30·30	68	W	4	b	30·35	+·12	62	58	+ 1	W	2	0	3	b	#	68	59	-
	Holyhead ...	30·33	63	SW	3	c	30·36	+·11	61	59	- 2	⊻	0	0	0	c	#	71	56	-
	Parsonstown ...	30·32	66	SW	1	c	30·35	+·06	62	59	- 2	⊻	0	0	#	c	2·8	68	59	-
	Valencia ...	30·37	63	SW	2	0	30·35	+·02	63	59	+ 2	⊻	0	0	2	0m, 0	0·0	64	59	-
	Roche's Point ...	30·36	67	WSW	3	b	30·37	+·04	60	57	- 2	N	1	0	2	b	#	69	55	-
	Pembroke (St. Ann's Hd.)	30·35	62	NW	3	b	30·35	+·05	57	57	- 4	SE	1	f	2	c, b	2·8	63	55	-
	Scilly	30·36	63	NNW	3	0	30·33	·00	62	59	0	NNE	1	0m	2	0	0·0	66	58	-
	Prawle Point ...	30·34	68	WNW	2	b	30·35	+·05	61	60	- 3	ENE	1	f	1	b	#	70	54	-
	Jersey (St. Aubin's)	30·34	69	NW	3	b	30·34	+·03	62	62	- 2	SE	1	f	1	b	#	72	58	-
	Hurst Castle ...	30·29	70	SW	2	b	30·32	+·05	68	65	- 1	NE	1	bm	1	bf	#	74	59	-
	Dungeness ...	30·28	64	WSW	2	c	30·30	+·05	65	62	+ 5	N	2	m	1	m, c, f	#	67	56	-
	North Foreland	30·30	69	W	2	0	30·32	+·06	67	63	+ 3	W	2	c	2	0	#	70	61	-
	London (Brixton) ...	30·28	71	NW	1	c	30·34	+·08	66	61	+ 2	NE	1	b	#	0g, bc, bmw	0·2	72	58	-
	Oxford	30·29	70	ENE	1	bc	30·34	+·09	67	62	+ 2	N	2	c	#	c, bc	#	80	57	-
	Cambridge ...	30·29	70	NW	1	0m	30·33	+·09	65	61	0	NNW	2	b	#	0m	0·1	71	55	-
	Yarmouth ...	30·25	68	⊻	0	b	30·29	+·08	64	62	+ 2	N	2	bc	2	bc, b	#	68	58	-
GERMANY & HOLLAND.	Cuxhaven ...	30·23	63	NW	3	b	30·19	+·04	61	59	0	NW	1	0	#	b	#	66	59	-
	Berlin	30·06	66	WNW	6	c	29·98	-·04	62	58	+ 3	WNW	4	c	#	c	#	68	59	-
	Wiesbaden ...	#	#	#	#	#	30·24	+·05	60	56	+ 1	NW	2	b	#	#	#	70	52	-
	Munich	30·27	52	W	3	r	30·21	+·02	54	53	+ 2	W	5	0	#	r	#	61	52	0·75
	The Helder ...	30·25	65	WSW	2	0	30·25	+·04	62	59	0	N	2	b	1	0	#	68	61	-
BELGIUM.	Brussels ...	#	#	#	#	#	30·28	+·02	62	60	+ 1	NW	2	0	#	bc	#	71	55	-
	Cape Gris Nez ...	30·25	62	WSW	1	m	30·27	+·07	62	60	- 1	S	1	m	1	m	#	64	57	-
	Paris	30·31	66	NNW	2	0	30·31	+·03	63	62	+ 6	NNW	2	m	#	0	#	71	57	-
	Brest	30·37	64	N	2	0	30·31	-·01	61	59	- 1	NE	1	0	1	0	#	66	54	-
	Lorient	30·33	70	W	1	b	30·32	-·01	57	57	- 5	NE	3	m	2	b	#	75	55	-
FRANCE &	Rochefort ...	30·32	73	NW	4	bc	30·28	-·05	67	64	+ 1	NE	3	bc	#	0, bc	#	75	63	-
	Belfort	30·25	62	E	1	c	30·25	+·06	53	52	- 4	⊻	0	m	#	c	#	68	48	-
	Lyons ...	30·23	68	N	3	b	30·25	+·03	60	55	+ 3	N	3	b	#	b	#	71	55	-
	Nice	29·97	71	SW	3	b	30·01	+·11	75	58	+ 2	⊻	0	b	1	b	#	81	64	-
	Perpignan ...	30·14	77	NW	5	b	30·15	-·06	73	63	+ 3	NW	2	b	#	b	#	83	65	-
	Biarritz ...	30·21	70	NNE	3	c	30·17	-·10	66	64	+ 3	E	3	b	2	c	#	77	61	-
PENINSULA.	Corunna ...																#			
	Lisbon	29·94	81	NW	4	b	29·94	-·06	79	68	- 3	ENE	3	b	#	b	#	95	70	-
	Azores (P. Delgada)	30·30	68	NNE	2	b	30·27	-·04	69	65	0	NNW	2	bc	2	b	#	73	66	-

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

Bright Sunshine yesterday Southport 5·3 hrs;

WEATHER CHARTS

FOR Friday, 30th July, 1897.

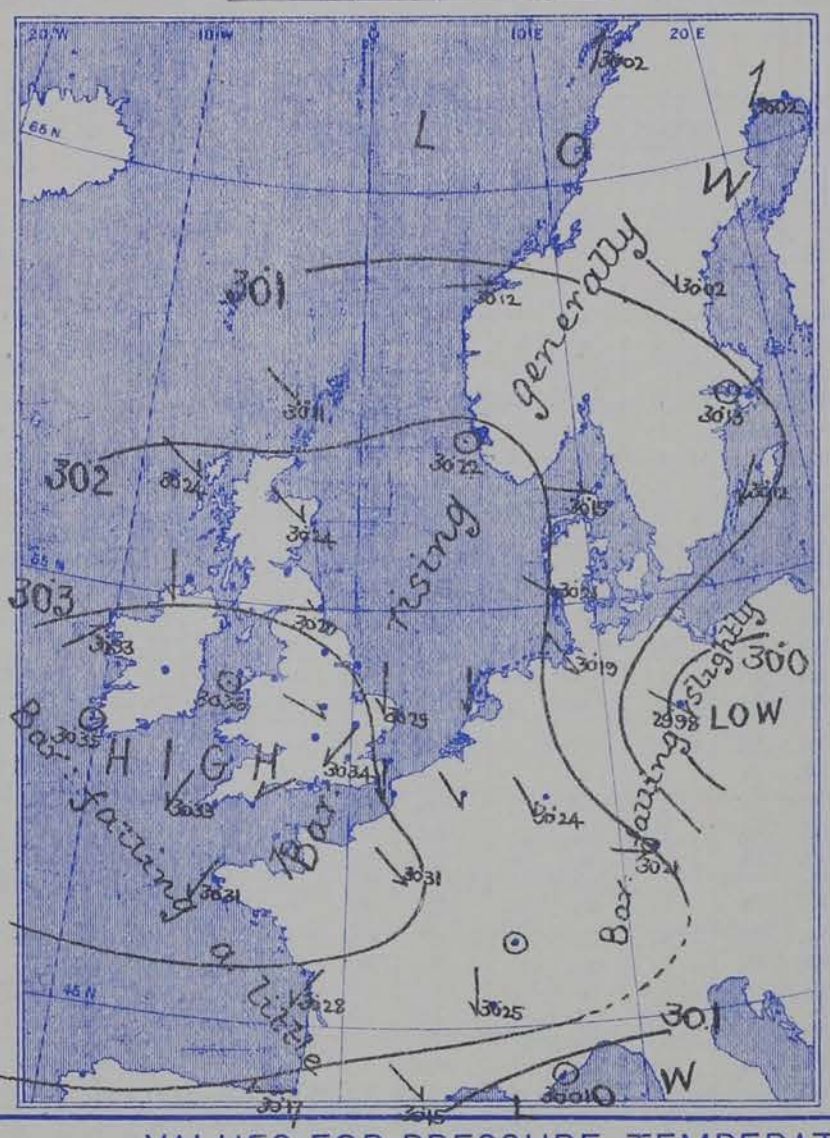
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.

WIND—Arrows shew Directions and Force, flying with the wind.

Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙

SEA—Rough ; *High*

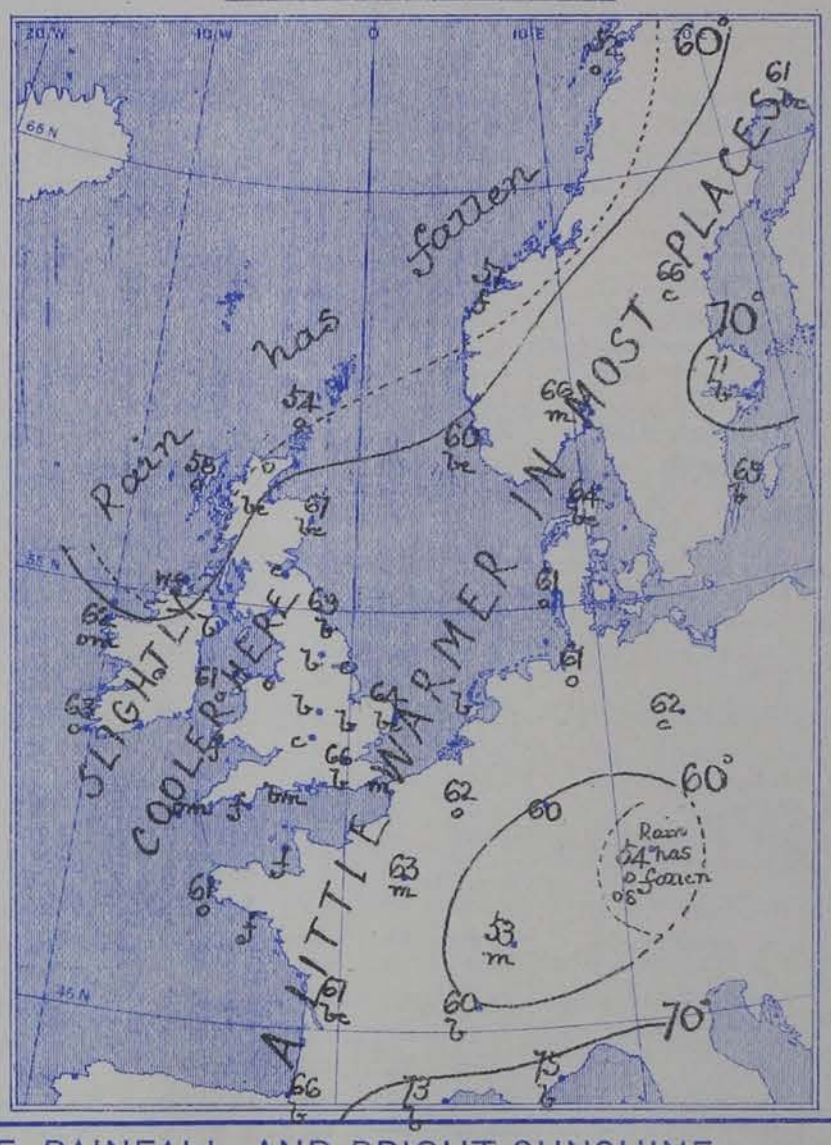


TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.

WEATHER—Shown by Letters of the Beaufort Scale.

RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE *IN THE MONTH OF JULY.*

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 56	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 73	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 86	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30·3 ins. and upwards over Ireland, England and the northwest of France; 30·2 ins. and upwards in an anticyclone covering the greater part of Western Europe. Lowest 30·0 ins. and less over the eastern parts of Germany and also in the south of Portugal. Gradients slight. Barometer rising generally, but falling slightly in the west of France, and the extreme southwest of our islands; as well as in Germany.

TEMPERATURE — Highest (1) 79° at Lisbon, 75° at Nice, 73° at Perpignan & 67° at Rochefort; (2) 71° at Stockholm; (3) 69° at Shields and 68° at Aberdeen. Lowest (1) 52° at Bodö, 54° at Lerwick Head and 56° at Stornoway; (2) 53° at Belfort and 54° at Munich. During yesterday the thermometer rose to between 70° and 75° in many parts of the United Kingdom, to 76° at York and to 80° at Oxford.

WIND — Light from the W.ⁿᵒ or NW.ⁿᵒ over all the more northern & eastern parts of the United Kingdom, Germany and the Netherlands, and also in Denmark. Light from the NE.ⁿᵒ over the English Channel and the Bay of Biscay, as well as at Lisbon. SW.ᵈ over the northern parts of Scandinavia.

WEATHER — Fine in the eastern parts of our islands, and at most of the Continental stations. Dull on our western coasts, with fog in several places. Slight rain fell yesterday in the extreme northern parts of Ireland and Scotland, as well as in the west of Norway, and a large quantity (0·8 in.) at Munich.

SEA — Slight or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone appears to be moving slowly northwards, but there are at present no signs of any important change in the weather.

FORECASTS

For the 24 hours ending at NOON on 31ˢᵗ JULY 1897.

DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH; 1 SCOTLAND EAST	NW.ᵇʸ to W.ᵇʸ winds, light; fair generally.
2 ENGLAND N.E.	NW.ᵇʸ and N.ᵇʸ winds, light; fine, warm.
3 ENGLAND EAST; 4 MIDLAND COUNTIES; 5 ENGLAND SOUTH	N.ᵇʸ to NE.ᵇʸ winds, light; fine, warm.
6 SCOTLAND WEST; 7 ENGLAND N.W.	Light breezes, chiefly W.ᵇʸ; fair generally, but some mist or fog.
8 ENGLAND S.W.	NE.ᵇʸ winds, light; fair generally, but local fogs.
9 IRELAND NORTH	Same as Nos. 6 and 7.
10 IRELAND SOUTH	Same as No. 8.
WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.

The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30·11	65	62	SSW	2	0	2
Sumburgh Head	30·05	59	56	WNW	3	c	3
Stornoway	30·01	59	59	SSW	4	0	5
Aberdeen	30·16	62	58	SE	3	b	2
Shields	30·20	71	65	W	3	c	2
Ardrossan	30·22	64	63	SSE	1	0	1
Malin Head ...	30·20	62	60	WSW	4	0	3
Belmullet	30·26	63	60	WSW	4	0	*
Holyhead	30·33	68	64	NW	2	c	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30·36	64	61	SW	2	om	3
Scilly	30·36	65	61	NW	3	0	2
Jersey	30·35	72	65	NW	3	b	3
Hurst Castle ...	30·30	74	68	SW	2	b	2
Dungeness ...	30·28	66	62	SW	2	m	1
North Foreland	30·29	70	65	W	1	0	1
London (Westminster)	30·28	70	64	NW	2	og	*
Yarmouth ...	30·24	67	64	NNE	2	be	2
Rochefort ...	30·35	75	73	N	3	0	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning cloudy or dull over our islands generally, with showers at Ardrossan. Fine over Southern Europe, as well as in Western Germany, Denmark and Scandinavia; cloudy or dull in most other parts of the Continent, with rain at many of the Austrian and German stations. A little rain falling later in the extreme north and northwest of our islands and also in the west of Norway and a larger quantity at Munich.

Temperature rises in most of the western, northern and central countries, but falls in Italy. Morning readings highest, 82° at Lisbon, 81° at Sfax, 79° at Athens and Patras and 78° at Algiers; above 70° in many parts of Southern Europe and very little below it at several stations in Great Britain and also in Sweden and Finland. Lowest (1) 51° at Bodö, 53° at Haparanda and 55° at Sumburgh Head; (2) 52° at Munich and 56° at Valencia. Rising during day to between 70° and 75° in many parts of our islands and to 80° at Oxford. Exceeding 80° in the south of France and reaching 95° at Lisbon.

Wind light to moderate, from the W^no over our islands generally, but SW^ly on our extreme northwest coast. N^ly over Finland, Sweden, Denmark and the Baltic; NW^ly in France, Germany and Austria. Varying N^ly in Italy; NE^ly on the Portuguese coast. Subsequently backing to the SW^no on many parts of our western coasts and to the S^no in Scotland; no important change occurring elsewhere.

Barometer highest 30·3 ins. and upwards over the Bay of Biscay, the west of France and the extreme southwest of our islands; 30·1 ins. and upwards in an anticyclone covering the greater part of Western Europe and also in another system over Central Russia. Lowest 29·7 ins. and less in a depression over northeastern Austria; 29·9 ins. and less in another disturbance over the Gulf of Genoa; 30·0 ins. and less in a large shallow area lying to the northward of our islands. No important change occurring over Western Europe during day.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid in advance, to the* Meteorological Office.

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DAILY WEATHER REPORT

for 8 a.m. on SATURDAY JULY 31st 1897.

Issued by the Meteorological Office, 63, Victoria Street, London. R. H. SCOTT, *Secretary.*

	STATIONS	YESTERDAY EVENING. (See note at bottom of last page.) Barom. At 32° and M.S.L.	Temp. Dry Bulb.	Wind. Direc.	Wind. Force (0 to 12.)	Weather	THIS MORNING. (See note at bottom of last page.) Barometer. At 32° Fahr. and M. S. L.	Barometer. Change since Yesterday.	Temperature. Dry Bulb.	Temperature. Wet Bulb.	Temperature. Change since Yesterday.	Wind. Direc.	Wind. Force (0 to 12.)	Weather.	Sea (0 to 9.)	PAST 24 HOURS. Weather.	Hours of Bright Sunshine.	Temp. Max.	Temp. Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
SCANDINAVIA	Haparanda ...	29.94	59	SW	2	c	30.04	+.02	62	53	+1		0	b	*	c	*	66	55	—
	Hernosand ...	30.09	69	N	2	bc	30.17	+.15	64	55	−2	N	4	b	*	bc	*	82	55	—
	Stockholm ...	30.09	66	2	0	b	30.06	−.07	75	63	+4	NE	2	b	*	b	*	79	59	—
	Wisby	30.08	63	E	4	b	29.99	−.13	70	63	+5	SE	6	r	*	b	*	72	55	—
	Karlstad ...	30.07	71	SSW	2	b	30.05	−.10	68	60	+10	N	2	b	*	b	*	*	*	—
	Bodo	30.23	56	W	3	f	30.26	+.24	55	53	+3	NE	1	f	1	f	*	61	52	0.12
	Christiansund ...	30.12	51	W	4	o	30.18	+.06	51	49	−6	WSW	5	c	3	o	*	57	50	0.08
	Skudesnaes ...	30.21	61	NNW	4	o	30.14	−.08	59	57	−1	NNW	6	o	2	o	*	64	55	*
	Faerder (Christiania Fjord)	30.08	69	SSW	1	b	30.05	−.08	66	61	0	NNE	4	b	2	b	*	70	64	—
	Skagen (The Scaw)	30.08	63	2	0	b	30.01	−.14	65	62	+1	ENE	1	b	0	b	*	77	52	—
	Fano	30.12	62	NNW	2	b	30.02	−.19	62	59	+1	NNW	4	c	*	b	*	70	61	—
	Sumburgh Head	30.29	55	NW	1	o	30.25	+.14	55	53	+1	W	1	b	1	bc.o	*	58	46	—
	Stornoway ...	30.29	58	ESE	2	o	30.17	−.07	58	57	+2	S	2	o	3	o	3.3	58	54	0.02
	Wick	30.36	58	NE	2	o	30.25	0.0	60	57	+3	W	2	o	1	o	*	65	52	—
	Nairn	30.28	63	E	2	b	30.21	−.01	61	59	−3	ENE	1	c	1	b	*	69	45	—
	Aberdeen ...	30.34	56	ENE	3	c	30.26	+.02	58	53	−9	SE	2	o	2	bc.c	10.6	68	54	—
	Leith	30.29	64	SSE	3	c	30.25	−.01	58	57	−6	NE	1	o	*	c	*	60	55	—
	Shields	30.30	63	NE	3	c	30.26	−.03	58	57	−11	NE	2	o	2	c	*	75	56	—
	Spurn Head ...	30.26	68	ENE	3	b	30.24	−.06	59	58	−4	NNE	3	o	3	b	*	75	55	—
	York	30.27	77	ENE	1	c	30.26	−.07	62	58	−4	NE	1	c	*	c	13.0	81	56	—
	Loughborough ...	30.26	76	W	1	bc	30.25	−.09	61	59	−5	NNE	2	bcw	*	bc.b.m	*	82	56	—
BRITISH ISLANDS	Ardrossan ...	30.30	63	E	1	bc	30.21	−.08	60	59	0	NNE	2	of	1	c.bc	*	67	54	0.01
	Malin Head ...	30.30	61	SE	1	o g	30.17	−.12	64	62	+6	ESE	3	c m g	1	o.og	*	64	58	—
	Belmullet ...	30.31	63	WSW	1	o	30.17	−.16	65	62	+3	ENE	1	o	*	o	*	66	58	—
	Donaghadee ...	30.33	65	SE	3	c	30.21	−.12	59	58	−6	NW	2	m	0	c	*	69	54	—
	Liverpool (Bidston)	30.30	65	NW	1	b	30.21	−.14	65	60	+3	ESE	1	b	2	b	*	68	58	—
	Holyhead ...	30.31	60	N	2	b	30.18	−.18	64	61	+3		2	0	bm	0	bc.b	*	68	56	—
	Parsonstown ...	30.28	70	2	0	bc	30.16	−.19	63	61	+1	SE	1	o	*	bc	3.6	72	59	—
	Valencia ...	30.27	64	NNW	1	c	30.14	−.21	62	60	−1	NNE	1	cm	2	c	3.8	69	52	—
	Roche's Point ..	30.30	61	SE	2	o	30.16	−.21	64	60	+4	SE	3	bc	3	bc.am	*	68	55	—
	Pembroke (St. Ann's Hd.)	30.27	70	NNE	4	b	30.17	−.18	64	62	+7	ESE	3	bcm	3	b	8.8	73	57	—
	Scilly	30.25	61	ENE	2	fw	30.13	−.20	61	61	−1	ENE	1	wof	3	o.wof	0.1	64	57	—
	Prawle Point ..	30.25	71	SW	1	m	30.17	−.18	69	63	+8	ENE	2	m	1	f.m.c	*	73	60	—
	Jersey (St. Aubin's)	30.25	70	NNE	2	b	30.15	−.19	69	64	+7	E	3	bm	3	f.bc.b	*	73	?	—
	Hurst Castle ...	30.24	71	SW	1	bm	30.18	−.14	70	65	+2	NNE	1	bm	1	bm	*	76	59	—
	Dungeness ...	30.23	67	NE	2	bc	30.15	−.15	62	60	−3	NE	3	o	2	c.bc	*	76	56	—
	North Foreland	30.26	66	N	1	bc	30.19	−.13	61	59	−6	N	4	o	3	bc	*	69	59	—
	London (Brixton) ...	30.24	75	NE	1	b	30.20	−.14	67	61	+1	NE	2	b	*	bc.b	11.3	82	58	—
	Oxford	30.24	71	NNE	2	b	30.21	−.13	66	62	−1	NE	3	b	*	b	*	80	58	—
	Cambridge ...	30.26	77	NE	1	b	30.23	−.10	60	57	−5	N	3	o	*	b	13.3	81	55	—
	Yarmouth ...	30.26	70	N	2	b	30.20	−.09	59	57	−5	NNE	4	cv	3	b	*	70	57	—
GERMANY & HOLLAND	Cuxhaven ...	30.13	63	NNW	3	c	30.01	−.18	62	60	+1	NNW	4	o	*	c	*	64	59	—
	Berlin	29.92	63	NNW	?	o	29.84	−.14	63	60	+1	NNE	2	b	*	o	*	68	61	0.35
	Wiesbaden ...	*	*	*	*	*	30.03	−.21	60	55	0	N	2	b	*	*	*	72	57	—
	Munich	30.13	53	W	5	†	30.02	+.19	52	52	−2	W	4	†	*	†	*	57	52	1.42
	The Helder ...	30.20	66	NNW	3	b	30.11	−.14	60	57	−2	NNE	4	o	3	b	*	66	59	—
BELGIUM	Brussels ...	*	*	*	*	*	30.11	−.17	61	58	−1	NNW	2	o	*	c	*	73	59	—
	Cape Gris Nez ...	30.23	65	NE	2	m	30.11	−.16	60	58	−2	E	4	o	3	m	*	72	59	—
	Paris	30.19	71	NNE	2	b	30.12	−.19	60	58	−3	N	1	o	*	b	*	76	56	—
	Brest	30.22	74	NNE	2	b	30.13	−.18	63	60	+2	E	2	b	2	b	*	79	57	—
	Lorient	30.18	75	W	1	b	30.08	−.24	62	61	+5	NE	4	m	3	b	*	82	55	—
FRANCE	Rochefort ...	30.13	78	NE	3	b	30.02	−.26	64	64	−3	ENE	3	b	*	bc.b	*	90	63	—
	Belfort	30.15	67	NE	2	o	30.06	−.19	58	55	+5	E	1	m	*	o	*	72	49	—
	Lyons	30.10	70	NNE	3	b	30.02	−.23	60	55	0	N	2	b	*	b	*	74	56	—
	Nice	29.93	73	?	3	b	29.87	−.14	69	58	−6	Z	0	b	0	b	*	82	63	—
	Perpignan ...	30.01	83	NW	2	b	29.95	−.20	72	63	−1	NE	1	b	*	b	*	90	59	—
	Biarritz ...	30.03	81	E	3	b	29.91	−.26	64	60	−2	E	4	b	2	b	*	84	61	—
PENINSULA	Corunna ...																*			
	Lisbon	29.95	68	SW	4	m	29.95	+.01	70	65	−9	WSW	3	o	*	bc.m	*	90	68	—
	Azores (P. Delgada)	30.27	70	W	1	b	30.21	−.06	71	67	+2	W	3	b	2	bc.b	*	75	64	—

For Explanation of Columns, see bottom of last page. † *Received too late for Insertion in Charts on next page.*

NOTE: *The Sunshine for London given in this Table is now recorded on the tower of the Wesleyan Training College, Westminster.*

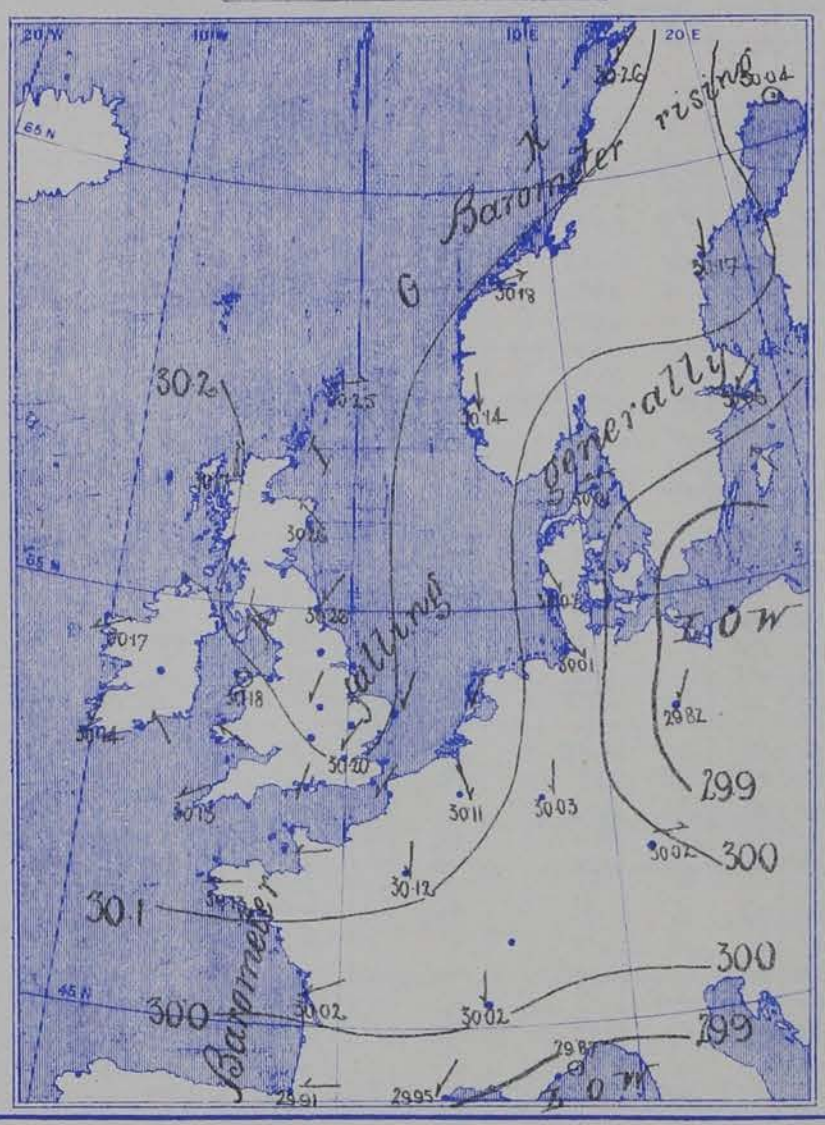
Bright Sunshine yesterday Southport 8.6 hrs;

WEATHER CHARTS

FOR SATURDAY, 31ST JULY, 1897.

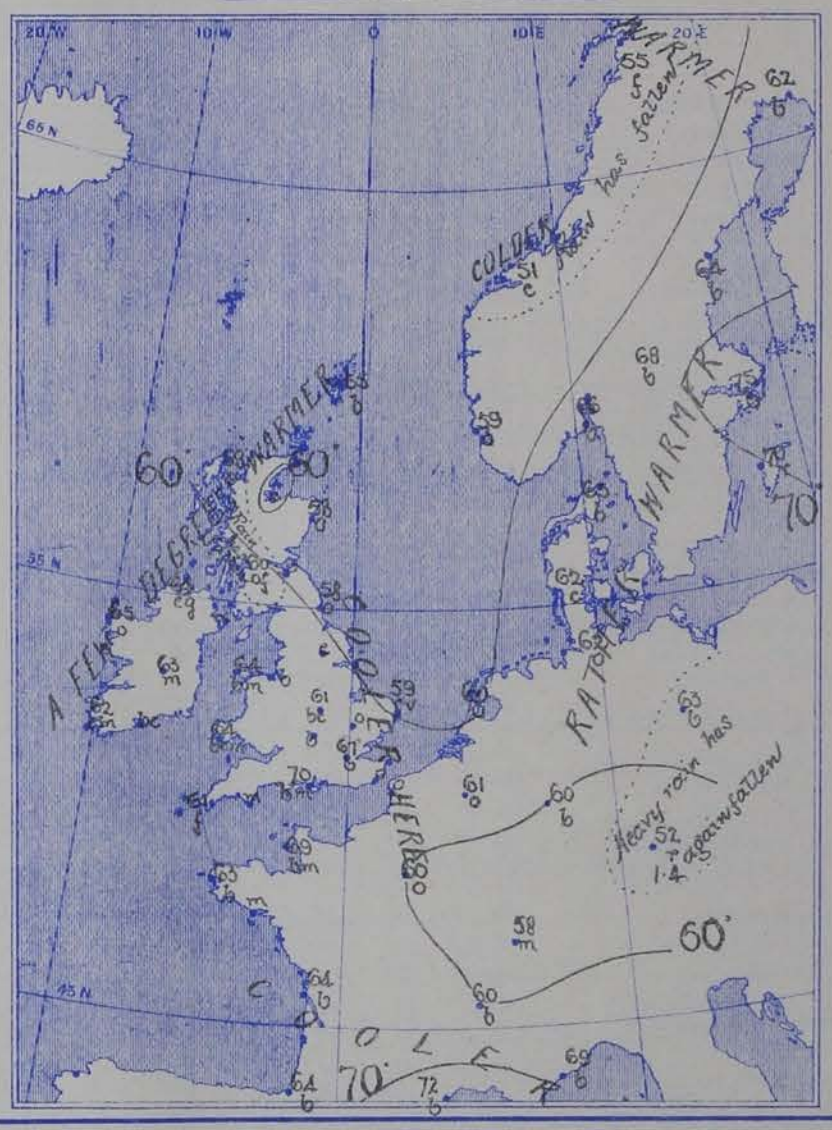
BAROMETER, WIND AND SEA.

BAROMETER—Isobars are drawn for each tenth of an inch.
WIND—Arrows shew Directions and Force, flying with the wind.
Force above 10 ; *Force 5 to 7* ; *Force 8 to 10* ; *Force 1 to 4* ; Calm ⊙
SEA—Rough ; *High*



TEMPERATURE & WEATHER.

TEMPERATURE—Isotherms are drawn for each 10°.
WEATHER—Shown by Letters of the Beaufort Scale.
RAINFALL—A dotted line separates areas where rain has fallen from those without rain. The fall in past 24 hours when exceeding half an inch is shown thus—0·6.



VALUES FOR PRESSURE, TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE
IN THE MONTH OF JULY.

STATIONS.	PRESSURE AT 8 A.M. Means, 1871—95.	TEMPERATURE OF AIR. 1871-95. Means of: Dry Bulb 8 a.m.	Wet Bulb 8 a.m.	Daily Maximum.	Daily Minimum.	Absolute Extremes: Maximum	Years.	Minimum.	Years.	RAINFALL. Means, 1866—95.	BRIGHT SUNSHINE. Means, 1881—95. Hours.	Per cent. of possible.
	(Inches.)	°	°	°	°	°		°		(Inches.)		
Sumburgh Head	29 · 789	53 · 3	51 · 7	57 · 5	48 · 3	69	1893	37	1888	2 · 36	—	—
Stornoway	29 · 800	55 · 4	53 · 7	60 · 2	49 · 0	76	1894	32	1888	3 · 08	143 · 6	27
Wick	29 · 813	55 · 8	53 · 6	61 · 6	48 · 9	81	1876	30	1886	2 · 52	—	—
Nairn	29 . 817	56 · 7	53 · 4	64 · 3	50 · 6	86	1876	37	1886	2 · 73	—	—
Aberdeen	29 · 831	57 · 4	53 · 7	63 · 6	50 · 7	86	1876	39	1884, 87	2 · 84	160 · 8	31
Leith	29 · 846	58 · 3	54 · 7	66 · 4	51 · 2	90	1876	41	1887, 88, 92	2 · 80	—	—
Shields	29 · 866	58 · 1	54 · 9	63 · 9	51 · 9	85	1876	40	1885	2 · 69	—	—
Spurn Head	29 · 896	59 · 4	56 · 6	64 · 8	54 · 9	84*	1881	44*	1888	1 · 78	—	—
York	29 · 899	59 · 1	55 · 8	68 · 5	51 · 8	89	1873	40	1887	2 · 73	163 · 3	32
Loughborough	29 · 927	60 · 9	57 · 2	71 · 1	52 · 5	90*	1881	39*	1888	2 · 35	—	—
Ardrossan	29 · 856	57 · 3	54 · 7	63 · 5	52 · 7	81	1873	40	1889	2 · 36	—	—
Malin Head	29 · 851	55 · 9	53 . 7	60 · 9	53 · 5	—	—	—	—	—	—	—
Belmullet	29 · 889	57 · 5	54 · 9	62 · 2	53 · 8	—	—	—	—	3 · 59	—	—
Donaghadee	29 · 880	57 · 3	55 · 4	63 · 2	52 · 2	81	1876	40	1883	2 · 82	—	—
Holyhead	29 · 909	58 · 1	55 · 8	63 · 7	54 · 2	83	1894	43	1888	2 · 37	—	—
Liverpool	29 · 905	59 · 3	55 · 4	65 · 9	54 · 1	89	1873	44	1877	2 · 99	—	—
Parsonstown	29 · 914	57 · 9	54 · 8	66 · 2	51 · 4	89	1876	37	1889	2 · 98	136 · 5	27
Valencia	29 · 937	59 · 0	56 · 4	63 · 9	53 · 6	80	1878	43	1885	4 · 23	153 · 8	31
Roche's Point	29 · 933	58 · 8	55 · 9	65 · 8	53 · 3	84	1876	45	1888	3 · 18	—	—
Pembroke	29 · 933	57 · 9	55 · 9	62 · 4	54 · 8	80	1878	45	1888	2 · 53	199 · 7	40
Scilly	29 · 969	60 · 2	58 · 1	64 · 4	56 · 2	75	1886	48	1875	2 · 47	—	—
Prawle Point	29 · 977	59 · 5	57 · 2	64 . 4	53 · 8	82*	1885, 87	42*	1888	2 · 39	—	—
Jersey	29 · 998	62 · 0	58 · 9	68 · 2	56 · 3	90	1873	46	1877	2 · 54	230 · 0	48
Hurst Castle	29 · 963	61 · 1	58 · 8	67 · 7	55 · 5	84	1876	43	1888	2 · 39	—	—
Dover	29 · 950	61 · 7	58 · 4	66 · 7	56 · 0	80	1881	40	1890	2 · 05	—	—
LONDON	29 953	61 · 8	57 · 6	72 · 0	54 · 0	95	1881	41	1877	2 · 48	162 · 0†	33†
Oxford	29 · 943	59 · 8	56 · 4	69 · 4	53 · 3	90	1876	41	1888	2 · 68	185 · 5	38
Cambridge	29 · 934	61 · 1	57 · 6	71 · 6	52 · 1	92	1893	39	1878	2 · 62	189 · 6	38
Yarmouth	29 . 923	60 · 7	57 · 6	66 · 2	54 · 8	87	1881	42	1872, 90	2 · 89	—	—

* Extremes of temperature at these Stations are from observations made during the 15 years—1881-95. † The Sunshine values are for Westminster.

GENERAL SITUATION AT 8 A.M.

PRESSURE — Highest 30.2 ins. and upwards in an anticyclone extending from the northward over all but the southern and southwestern parts of Great Britain.
Lowest 29.9 ins. & less in a depression lying over Eastern Germany & the Baltic, and also in another system over the Bay of Genoa.
Gradients slight. Barometer falling a little generally, but rising in the northern parts of Scandinavia.

TEMPERATURE — Highest (1) 75 at Stockholm & 70 at Wisby; (2) 72 at Perpignan & 70 at Diaton; (3) 70 at Hurst Castle and 69 at Prawle Pt. & Jersey.
Lowest (1) 51 at Christiansund, 55 at Bodö & Lerwick, and 58 at Stornoway, Aberdeen, Leith & Shields; (2) 52 at Munich & 58 at Belfort.
During yesterday the thermometer rose to 80° or more in many parts of Great Britain, and to 82 at Loughborough & in London.

WIND — Light from the N.W. or NE. over Great Britain and France; rather variable in Ireland, but chiefly E. or SE. N. ¾ (NE ¾ to NW ¾) over Denmark, North Germany and the south of Scandinavia as a whole, but strong from the SE. at Wisby.

WEATHER — Cloudy or dull in all the more northern parts of the United Kingdom; fine at most of our central and southern stations, but foggy or misty over the western parts of the English Channel.
Fine at most of the continental stations, but dull over the Netherlands & the northeast of France & rainy at Wisby & Munich.
Slight rain fell yesterday in the west of Scotland and also in the west of Norway and larger quantities at some of the German stations; at Munich there was as much as 1.24 ins.

SEA — Slight or smooth generally.

PROBABLE CHANGES IN SYSTEM NOW PREVALENT

The anticyclone appears to be gradually breaking up, but there no signs of any immediate change in the weather.

FORECASTS

For the 24 hours ending at NOON on 1ST AUGUST 1897.

DISTRICTS.	FORECASTS.	DISTRICTS.	FORECASTS.
0 SCOTLAND NORTH	Light variable breezes; fair generally	6 SCOTLAND WEST	Same as Nos. 1 and 2.
1 SCOTLAND EAST	Light breezes, chiefly NE ¾; fair generally.	7 ENGLAND N.W.	
2 ENGLAND N.E.		8 ENGLAND S.W.	E ¾ winds, moderate; fair generally
3 ENGLAND EAST	N ¾ and NE ¾ winds, light; fair generally.	9 IRELAND NORTH	Same as Nos. 1 and 2.
4 MIDLAND COUNTIES		10 IRELAND SOUTH	
5 ENGLAND SOUTH		WARNINGS	NONE ISSUED.

Note.—The **South Cone**, *point downwards* (▼), means that gales, or strong winds, are probable, at first from the Southward (from S.E. round by S. to N.W.). Should it appear likely that a gale beginning from between W. and N.W. is likely to veer towards N. or N.E., the *North* Cone is hoisted in preference to the *South* Cone.
The **North Cone**, *point upwards* (▲), means that gales, or strong winds, are probable, at first from the Northward (from N.W. round by N. to S.E.). Should it appear likely that a gale beginning from between E. and S.E. is likely to veer towards S. or S.W., the *South* Cone is hoisted in preference to the *North* Cone.

YESTERDAY'S 2 P.M. REPORTS.

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Skudesnaes ...	30.22	64	60	W	2	o	2
Sumburgh Head	30.27	57	55	NW	2	bc	4
Stornoway	30.29	55	55	S	3	f	4
Aberdeen	30.31	66	59	NE	3	bc	3
Shields	30.29	72	66	WNW	3	c	2
Ardrossan	30.32	66	65	S	2	c	1
Malin Head ...	30.32	62	61	W	1	o	o
Belmullet	30.38	64	61	WSW	1	o	*
Holyhead	30.35	68	63	W	1	bc	1

	BAR.	THER. Dry.	THER. Wet.	WIND. Direc.	F.	WEA.	SEA.
Valencia	30.32	66	61	W	1	c	2
Scilly	30.31	63	60	NE	1	o	1
Jersey	30.29	72	68	NE	1	bc	1
Hurst Castle ...	30.29	76	69	SW	1	bm	1
Dungeness ...	30.28	69	64	E	3	c	2
North Foreland	30.31	67	64	NE	1	bc	1
London (Westminster)	30.27	77	67	NE	2	bc	*
Yarmouth ...	30.30	70	65	NNE	2	b	2
Rochefort ...	30.28	84	81	NE	4	bc	*

GENERAL REMARKS ON THE WEATHER OVER EUROPE
DURING THE PAST 24 HOURS.

Weather in morning fine in the Eastern parts of our islands and also over the greater part of the Continent. Dull on our western coasts, with fog in places; rainy over Austria and South Germany. Slight rain falling later in the west of Scotland and also in the west of Norway and larger quantities at some of the German stations, as much as 1.4 ins. at Munich.

Temperature changed rather irregularly. Morning readings highest 79° at Lisbon and San Fernando, 77° at Algiers & 76° at Palermo; above 70° over Southern Europe generally, as well as at one or two of the Baltic stations. Lowest (1) 52° at Bodö, 54° at Lerwick Head & 56° at Stornoway; (2) 53° at Münster and Belfort and 54° at Munich. Rising during day to 80° or slightly above in many parts of Great Britain; exceeding 85° in some parts of the Spanish peninsula and the south of France and reaching 90° at Perpignan and Biskra.

Wind light to moderate from the W. or NW. over all the more northern and eastern parts of the United Kingdom, as well as in Denmark, Germany and the Netherlands; N. or NE. over France, Spain, Italy and the southwest of our islands. SW. on the north of Scandinavia, but NW. in Finland; light from the E. or SE. over Eastern Austria and the south of Russia. Subsequently shifting to the NE. on many parts of our own northern and eastern coasts; no important change occurring elsewhere.

Barometer highest 30.3 ins. and upwards over Ireland, England and the northwest of France; 30.2 ins. and upwards in an anticyclone covering the greater part of Western Europe. Lowest 29.8 ins. and less in a well marked depression lying over Austria; 30.0 ins. and less in another disturbance over the southwestern parts of the Spanish peninsula and also over the extreme north of Russia. Anticyclone moving slowly northwards during day and barometer falling at all but one extreme northern station.

NOTE. Owing to the operation of the Factory Act the Daily Weather Report for Monday, the 2nd August, cannot be issued until Wednesday the 4th. The Report for Sunday the 1st will be issued as usual with that for Tuesday.

EXPLANATION OF THE COLUMNS GIVEN ON PAGE 1.

WEATHER.—*Beaufort Scale* is b. blue sky; c. detached clouds; d. drizzling rain; f. fog; g. dark, gloomy; h. hail; l. lightning; m. misty (hazy); o. overcast; p. passing showers; q. squally; r. rain; s. snow; t. thunder; u. ugly, threatening; v. visibility, unusual transparency; w. dew.

* AN ASTERISK is inserted in all places for which information is not usually received.

N.B.—The morning observations are now made at 8 a.m. in the British Islands, Belgium, Germany, Sweden, and Norway, at 7 a.m. in France, and at 9 a.m. in Spain and Portugal. The evening observations are made at 8 p.m. at Oxford, but at 6 p.m. at the other stations in the British Islands and in France; at 8 p.m. in Sweden, Norway and Germany. The time at each Station is the Standard Time of its Country.

Subscriptions both for the Daily *and* Weekly Weather Reports *may be paid, in advance, to the* Meteorological Office.

TERMS: For Daily Weather Report, forwarded by Book Post, £1 0 0 per annum.
" Weekly " " " £1 10 0 "

ADDITIONS AND CORRECTIONS TO THE

1. REPORTS RECEIVED TOO LATE FOR INSERTION DAILY.

		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
DATE.	STATIONS.	At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
1	Corunna	30·10	64	NW	4	bc	30·14	+·06	63	59	0	NW	2	0	3	bc	-	64	57	-
4	Azores	30·40	65	ENE	2	c	30·37	-	65	-	-	E	4	0	3	c	-	72	63	-
5	Corunna	30·33	65	N	4	c	30·23	-·10	66	61	+4	NE	2	0	4	c	-	66	59	-
6	Corunna	?	70	N	5	b	30·06	-·17	64	62	-2	NNE	2	b	2	b	-	73	55	-
7	Corunna	30·03	64	NW	5	bc	30·01	-·05	64	61	0	N	2	0	0	bc	-	66	57	-
8	Corunna	29·99	66	N	3	c	29·98	-·03	63	61	-1	N	3	c	3	c	-	68	59	-
9	Cape Gris Nez	29·97	60	NW	1	0	30·02	+·07	57	56	-1	W	4	0	4	0	-	68	57	-
..	Corunna	30·02	66	N	5	b	30·10	+·12	64	60	+1	N	3	0	2	b	-	66	57	-
10	Corunna	30·11	66	NNE	5	b	30·12	+·02	67	63	+3	NE	4	0	4	b	-	70	59	-
..	Azores (P. Delgada)	30·25	69	S	4	c	30·22	+·03	70	68	-1	S	4	c	4	c	-	77	68	-
11	Corunna	30·11	72	N	4	c	30·09	-·03	67	63	0	NE	3	b	4	c	-	72	61	-
..	Azores (P. Delgada)	30·18	75	SSW	2	c	30·17	-·05	71	68	+1	S	4	c	4	c	-	75	68	-
12	The Helder	30·14	59	NE	4	c	30·38	+·04	58	-	-1	NE	4	0	2	c	-	61	45	-
..	Corunna	30·05	68	N	6	b	30·01	-·08	68	66	+1	N	1	b	2	b	-	72	55	-
13	Cape Gris Nez	30·19	59	E	6	c	30·14	-·08	62	-	+4	E	4	bc	4	c	-	63	55	-
14	Corunna	29·84	66	NNW	2	b	29·76	-·11	64	62	+3	SSW	2	f	2	b	-	66	57	0·20
15	Cape Gris Nez	29·95	64	E	5	bc	29·98	+·03	60	-	0	E	4	0	4	bc	-	68	59	-
..	Paris	29·79	75	ENE	2	bc	29·83	-·06	66	58	0	NNE	2	b	*	bc	-	80	56	-
..	Corunna	29·80	67	SW	2	0	29·93	+·17	66	64	+2	SSW	1	bc	2	0	-	73	59	0·08
17	Corunna	30·22	70	NNW	3	b	30·19	-	66	64	-	NNW	1	bc	2	b	-	75	57	-
18	Azores (P. Delgada)	30·05	67	SW	5	bc	29·98	-·04	68	65	0	WSW	4	c	5	bc	-	70	53	0·32
19	Rochefort	29·97	73	NNW	2	c	29·82	-·21	69	68	+1	W	0	0	*	c	-	79	66	0·08
..	Corunna	30·06	68	NNW	2	b	29·84	-·29	68	63	+4	S	3	0	2	b	-	70	59	-
21	Corunna	29·91	71	W	6	b	30·11	-	67	64	-	SW	2	bc	3	b	-	73	59	-
22	Brussels	-	-	-	-	-	29·89	-·20	55	-	-8	SW	2	0	-	r	-	69	51	0·47
..	Corunna	30·20	67	NNW	2	b	30·26	+·15	64	61	-3	SW	2	b	2	b	-	68	59	-
23	Corunna	30·20	68	N	6	b	30·04	-·22	70	65	+6	NE	1	b	4	b	-	73	57	-
24	Corunna	30·06	?	NW	?	?	30·20	+·16	67	64	-3	NNW	2	0	2	?	-	82	57	-
26	Corunna	30·37	68	NNW	2	c	30·30	00	68	64	+1	NW	1	b	3	c	-	70	57	-
28	Corunna	30·26	70	NW	2	f	30·28	-	68	64	-	NE	2	0	2	f	-	72	63	0·04
-	Azores (P. Delgada)	30·39	69	E	1	c	30·36	-·04	68	64	-1	ENE	2	0	2	c	-	75	66	-
29	Corunna	30·27	73	N	4	b	30·22	-·06	69	64	+1	NE	2	b	2	b	-	73	61	-
30	Corunna	30·13	77	NE	3	b	30·04	-·18	72	66	+3	NE	2	b	4	b	-	79	63	-
31	Corunna	29·95	74	NE	2	b	29·86	-·18	70	65	-2	W	3	c	4	b	-	82	63	0·04

REPORTS FOR JULY 1897.

2. CORRECTIONS.

		YESTERDAY EVENING. (See note at bottom of last page.)					THIS MORNING. (See note at bottom of last page.)									PAST 24 HOURS.				
		Barom.	Temp.	Wind.			Barometer.		Temperature.			Wind.						Temp.		
DATE.	STATIONS.	At 32° and M.S.L.	Dry Bulb.	Direc.	Force (0 to 12.)	Weather	At 32° Fahr. and M. S. L.	Change since Yesterday.	Dry Bulb.	Wet Bulb.	Change since Yesterday.	Direc.	Force (0 to 12.)	Weather.	Sea (0 to 9.)	Weather.	Hours of Bright Sunshine.	Max.	Min.	Rainfall.
		Ins.	°				Ins.	Ins.	°	°	°							°	°	Ins.
1	Shields	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-
5	Christiansund	29.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Spurn Head	-	-	-	-	-	29.63	-.24	-	-	-	-	-	-	-	-	-	-	-	-
..	Pembroke	-	-	-	-	-	-	-	60	-	+ 2	-	-	-	-	-	-	60	-	0.04
7	Pembroke	29.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
..	Aberdeen 2pm	-	-	-	-	-	29.59	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Pembroke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	53	-
9	Spurn Head	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05
10	Valencia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	-
11	Donaghadee	-	-	-	-	-	30.37	+.12	-	-	-	-	-	-	-	-	-	-	-	-
..	Cambridge	-	-	-	-	-	-	-	52	-	-1	-	-	-	-	-	-	-	-	-
12	Malin Hd	-	-	-	-	-	-	-	61	57	+ 3	-	-	-	-	-	-	-	-	-
17	Cambridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75	-	-
19	Ardrossan	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73	-	-
..	Holyhead	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.09
..	Scilly	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	No rain
20	Belmullet	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-
21	Spurn Head	Erase 6pm Observations					-	-	-	-	-	-	-	-	-	-	-	-	-	-
22	Cambridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.11
23	Aberdeen	29.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
..	Cambridge	-	-	-	-	-	-	-	62	-	+1	-	-	-	-	-	-	-	-	-
24	Lyons	-	-	-	-	-	30.18	-.06	-	-	-	-	-	-	-	-	-	-	-	-
25	Hernösand	30.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
..	Parsonstown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	bc.p	1.4	-	-	-
26	Shields	-	-	-	-	-	-	-	65	-	-2	-	-	-	-	-	-	-	-	-
..	Parsonstown	-	-	-	-	-	29.81	+.11	-	-	-	-	-	-	-	-	-	-	-	-
..	N. Foreland	-	-	Sw	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	Lisbon	-	?	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
..	Holyhead 2pm	-	-	-	-	-	30.31	-	-	-	-	-	-	-	-	-	-	-	-	-
30	Stornoway	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-
31	Jersey	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61	-